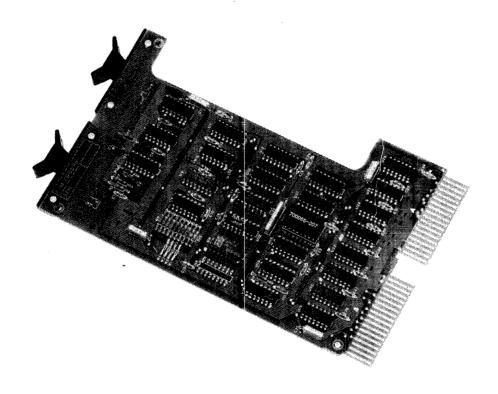
PM-RL11 and PM-RL11B BOOTSTRAP LOADER for the PDP-11





PM-RL11 and PM-RL11B Bootstrap Loader for the PDP-11

GENERAL DESCRIPTION

The PM-RL11 and PM-RL11B are bootstrap loaders that permit fast loading of bootstrap programs or restarting the DEC PDP-11 programs for such devices as paper tape readers, discs, magnetic tape, DECtape.* The general purpose loaders are designed for use in the PDP-11 system with at least 4K of memory and one or more bulk storage devices. It may be placed in any slot that is wired to the UNIBUS, e.g., slots A and B of a memory location or UNIBUS slots A3 and B3 of the Plessey PM-DC11 disc controller. The bootstrap programs are contained in a read-only memory (ROM).

The PM-RLll works with a switch register and contains bootstraps for the following devices:

- DEC TCll DECtape Magnetic Tape System
- DEC RF11 Moving Head Disc System
- DEC RC11 Moving Head Disc System
- DEC RK11 or Plessey PM-DS11 Moving Head Disc System
- DEC RP11 or Plessey PM-DS11/14 Moving Head Disc System

The PM-RL11B works with a console and bootstraps all the devices listed above for the PM-RL11 plus the DEC TM11 or Plessey PM-TS11 Magnetic Tape System and the DEC RX11 or Plessey PM-XS11 Floppy Disc Systems.

FEATURES

- General purpose bootstrap loader for all PDP-11 systems
- Contains bootstrap loaders for the most frequently used PDP-11 devices

*DEC, PDP, UNIBUS and DECtape are registered trademarks of Digital Equipment Corporation.

LOADING PROGRAMS

The PM-RL11 and PM-RL11B bootstrap loaders are shipped with jumper wires connected for starting address 773000. Its ROM locations are pre-programmed for a bulk storage (disc or DECtape) bootstrap loader programs and a paper tape bootstrap loader program.

The switch register operation of the PM-RL11 utilizes device addresses, and the console operation of the PM-RL11B uses device codes as follows:

DEC	PLESSEY	DEVICE CSR ADDRESS	STARTING RL11	ADDRESS RL11B	RLIIB CONSOLE MNEUMONICS
TM11 TS11 RF11 RC11 RK11 RP11 RX11 PC11	PM-TS11 N/A N/A N/A PM-DS11 PM-DS11/80 PM-XS11 PM-PR11	772520 777344 777462 777450 777406 776716 777170 777550	N/A 773100 773100 773100 773100 773100 N/A 773000†	773000 773000†	MT DT RF RC RK RP RX PR

†Tries high speed reader first. If none, low speed reader is selected.

PROGRAM LISTING

The program listing for the bulk storage bootstrap loader program and the paper tape bootstrap are contained the PM-RL11 and PM-RL11B manuals (MA 700596-100 and MA 700596-201 respectively) which are shipped with the equipment.

RELIABILITY AND QUALITY ASSURANCE

Plessey materials, fabrication, and workmanship conform to the best commercial practices. Selected components are preconditioned prior to assembly to enhance system reliability. Assembled systems are subjected to dynamic burn-in testing at elevated temperatures and are fully computer tested for proper operation using worst case diagnostics. The following standards are met:

- Printed circuit boards are gold plated on the connector fingers.
- Silicon integrated circuits are dual in-line packages unless their application is prohibited by voltage swing, power dissipation or function availability.
- All assemblies having the same part number are interchangeable.
- The circuits are designed to minimize the risk of catastrophic failure propagation.
- All hardware items of the products are resistant to corrosion.
- All components are suitably derated for maximum MTBF (means time between failures).

Workmanship is consistent with the best commercial computer practices and products are designed for high reliability and maintainability as well as low cost and state of the art electrical performance.

SPECIFICATIONS

Installation

The PM-RL11 and PM-RL11B can be installed in any standard or modified Unibus slot of a PDP-ll system with at least 4K of memory and one or more bulk storage devices.

Electrical Specifications

Power Requirements: +5VDC 1A

ROM Cycle Time: 500ns

Starting Address: RLll - 773000 or 773100

RL11B - 773000

Unibus Loading: 1 bus load

Operation: RL11 Switch register

RL11B Console

Environmental Specifications

Temperature

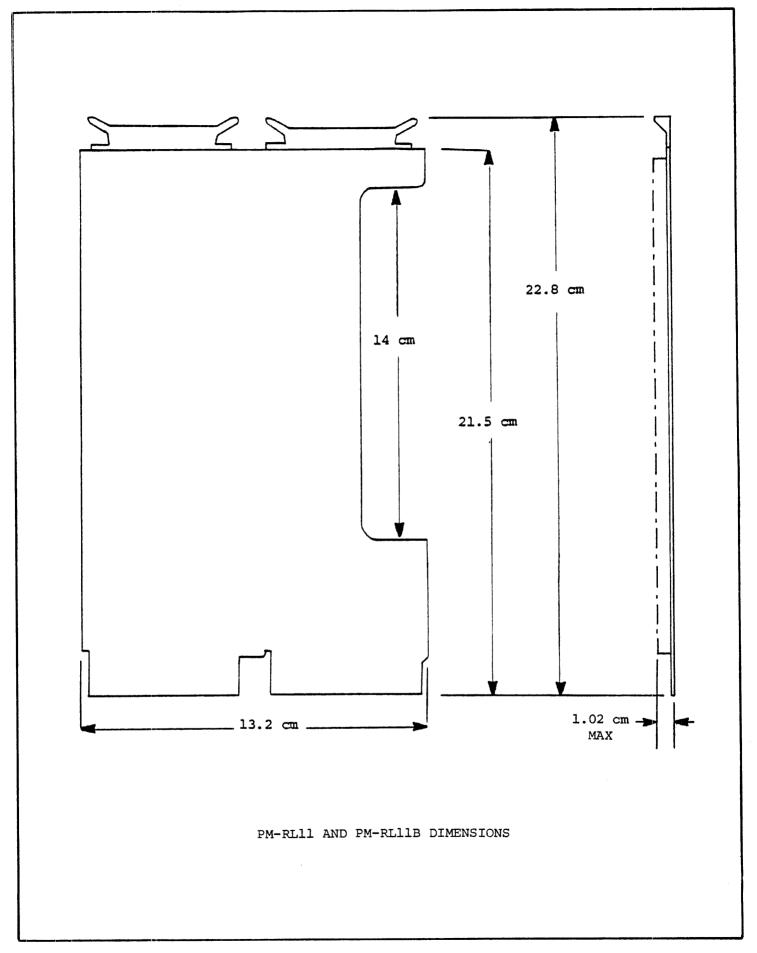
Operating: 0°C to +50°C

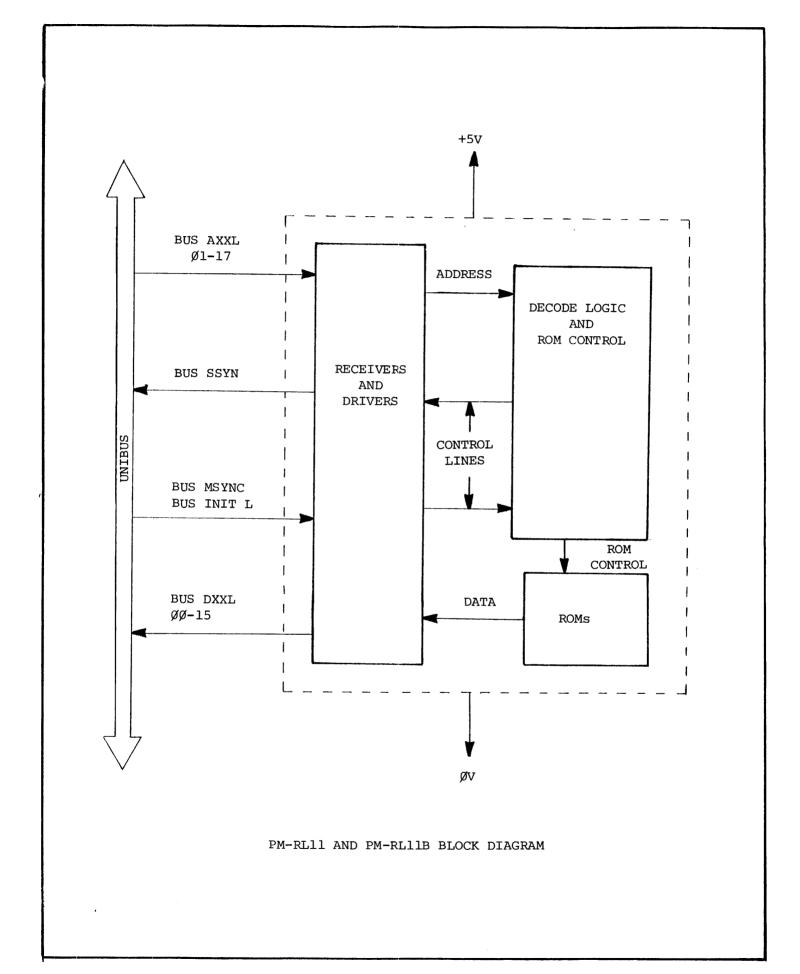
Nonoperating: -10°C to +85°C

Relative Humidity: 10% to 90% without condensation

Physical Specifications

The PM-RL11 is contained on a single dual wide printed circuit board with dimensions as shown below. It is a two-layered etch board with power, ground and logic traces on both solder and component sides of the board.





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PM-RL11 and PM-RL11B Bootstrap Loaders Manual



PM-RL11 and PM-RL11B Bootstrap Loaders Manual

August 1978 - Revision A

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SIZE

CODE IDENT NO.

DWG NO.

52648

MA 700596

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Preface

This manual provides the information needed to install, operate, and program the PM-RL11 bootstrap loaders manufactured by Plessey Peripheral System, Irvine, California.

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Section 1 General Information

1.1 INTRODUCTION

This manual provides the information needed to install, operate and program the PM-RLllB bootstrap loaders manufactured by Plessey Peripheral System, Irvine, CA.

The material is arranged into three sections as follows:

Section l - GENERAL INFORMATION. This section contains a general description of the PM-RLll and PM-RLllB and the specifications for the bootstrap loaders.

Section 2 - INSTALLATION AND OPERATIONS. This section explains the equipment installation and operating procedures.

Section 3 - PROGRAMS. This section contains program listings for bulk storage and paper tape bootstrap programs for the PM-FL11 and PM-RL11B.

Appendix - DRAWINGS. The appendix contains the parts list, logic diagrams and assembly drawings necessary for a complete understanding of the units.

1.2 GENERAL DESCRIPTION

The PM-RL11 and PM-RL11B are bootstrap loaders that permit fast loading of bootstrap programs or restarting the DEC PDP-11 programs for such devices as paper tape readers, discs, magnetic tape, DECtape.* The general purpose loaders are designed for use in the PDP-11 system with at least 4K of memory and one or more bulk storage devices. It may be placed in any slot that is wired to the Unibus, e.g., slots A and B of a memory location or Unibus slots A3 and B3 of the Plessey PM-DC11 disc controller. The bootstrap programs are contained in a read-only memory (ROM). Figure 1-1 is a block diagram for the bootstrap loaders.

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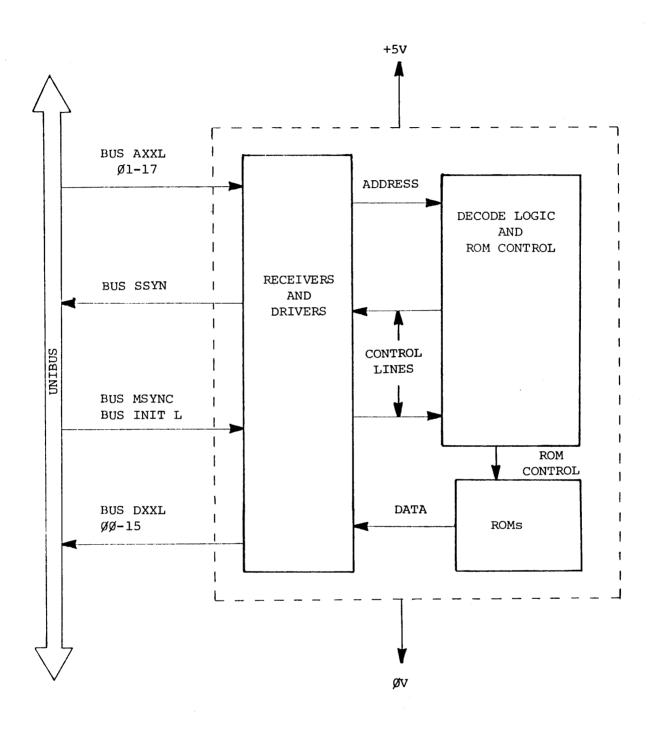


Figure 1-1: Bootstrap Loader Block Diagram

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Note that the PM-RL11 and PM-RL11B can be identified by their part numbers. The PM-RL11 is labelled P/N 700596-100 and the PM-RL11B is labelled P/N 700596-201.

The PM-RLll works with a switch register and contains bootstraps for the following devices:

- DEC TC11 DECtape Magnetic Tape System
- DEC RF11 Moving Head Disc System
- DEC RCll Moving Head Disc System
- DEC RKll or Plessey PM-DSll Moving Head Disc System
- DEC RP11 or Plessey PM-DS11/14 Moving Head Disc System

The PM-RL11B works with a console and bootstraps all the devices listed above for the PM-RL11 plus the DEC TM11 or Plessey PM-TS11 Magnetic Tape System and the DEC RX11 or Plessey PM-Xs11 Floppy Disc Systems.

1.3 LOADING PROGRAMS

The PM-RL11 and PM-RL11B bootstrap loaders are shipped with jumper wires connected for starting address 773000. Its ROM locations are pre-programmed for a bulk storage (disc or DECtape) bootstrap loader programs and a paper tape bootstrap loader program.

The switch register operation of the PM-RLll utilizes device addresses, and the console operation of the PM-RLllB uses device codes as follows:

DEC	PLESSEY	DEVICE CSR ADDRESS	STARTING RL11	ADDRESS RL11B	RL11B CONSOLE MNEUMONICS
TM11	PM-TS11	772520	N/A	773000	MT
TSll	N/A	777344	773100	773000	DΤ
RF11	N/A	777462	773100	773000	RF
RC11	N/A	777450	773100	773000	RC
RKll	PM-DS11	777406	773100	773000	RK
RP11	PM-DS11/80	776716	773100	773000	RP
RXll	PM-XS11	777170	N/A	773000	RX
PC11	PM-PR11	777550	773000	773000†	PR

†Tries high speed reader first. If none, low speed reader is selected.

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1.4 RELIABILITY AND QUALITY ASSURANCE

Plessey materials, fabrication, and workmanship conform to the best commercial practices. Selected components are preconditioned prior to assembly to enhance system reliability. Assembled systems are fully computer tested for proper operation using worst case diagnostics. The following standards are met:

- Printed circuit boards are gold plated on the connector fingers.
- Silicon integrated circuits are dual in-line packages unless their application is prohibited by voltage swing, power dissipation or function availability.
- All assemblies having the same part number are interchangeable.
- The circuits are designed to minimize the risk of catastrophic failure propagation.
- All hardware items of the products are resistant to corrosion.
- All components are suitably derated for maximum MTBF (means time between failures).

Workmanship is consistent with the best commercial computer practices and products are designed for high reliability and maintainability as well as low cost and state of the art electrical performance.

1.5 SPECIFICATIONS

1.5.1 Installation

The PM-RL11 and PM-RL11B can be installed in any standard or modified Unibus slot of a PDP-11 system with at least 4K of memory and one or more bulk storage devices.

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1.5.2 Electrical Specifications

Power Requirements:

+5VDC 1A

ROM Cycle Time:

500ns

Starting Address:

RL11 - 773000 or 773100

RL11B - 773000

Unibus Loading:

1 bus load

Operation:

RLll Switch register

RL11B Console

1.5.3 Environmental Specifications

Temperature

Operating:

0°C to +50°C

Nonoperating: -10°C to +85°C

Relative Humidity: 10% to 90% without condensation

1.5.4 Physical Specifications

The PM-RL11 is contained on a single dual wide printed circuit board with dimensions as shown below. It is a two-layered etch board with power, ground and logic traces on both solder and component sides of the board. See Figure 1-2.

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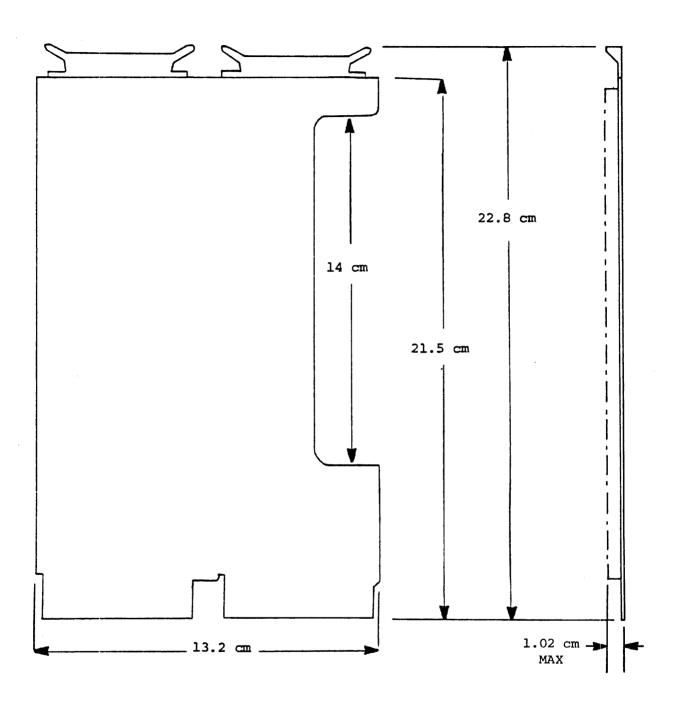


Figure 1-2: PM-RL11 and PM-RL11B Dimensions

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Section 2

Installation and Operation

2.1 UNPACKING AND INSPECTION

The PM-RL11 and PM-RL11B are shipped in a special packing carton designed to keep the board from vibrating and to give them maximum protection during shipment. The packing carton should be retained in case the unit requires reshipment.

Remove any packing materials before removing the bootstrap loader from its carton. Visually inspect for any physical damage.

2.2 INSTALLATION

The PM-RLll and PM-RLllB plug into any Unibus or modified Unibus (MUD) location in the A-B portion of expansion slots in the following backplanes:

Plessey PM-Dll/SPC-1

PM-D11/SPC-2 PM-F11/SPC PM-F11/SPC-1 PM-DC11 (J3 A-B)

DEC

DD11-C DD11-D DD11-P

Any other DEC backplane containing expansion slots for Unibus or MUD.

2.3 OPERATION

2.3.1 Operating Procedure for PM-RL11

The PM-RL11 has separate operating procedures for bulk storage and paper tape bootstrap as follows:

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BULK STORAGE BOOTSTRAP PROCEDURE

- 1. Set the HALT/ENABLE switch to HALT, then ENABLE.
- 2. Set ROM address 773100 into the Switch Register.
- 3. Press the LOAD ADDRESS switch.
- 4. Enter into the Switch Register the device address of the disc or DECtape to be used according to Table 2-1.

DEC	DEVICE PLESSEY	DEVICE ADDRESS
TS11	N/A	777344
RF11	N/A	777462
RC11	N/A	777450
RK11	PM-DS11	777406
RP11	PM-DS11/80	776716
RX11	PM-XS11	777170

Table 2-1: Device Addresses for PM-RLll

5. Press the START switch. The disc or DECtape data should read into memory.

PAPER TAPE BOOTSTRAP PROCEDURE

- 1. Set the HALT/ENABLE switch to HALT, then to ENABLE.
- 2. Place the absolute loader paper tape in the reader to be used, with the special tape leader placed over the read head.
- 3. If the high speed reader is to be used, set the switch to ON.
- 4. If the low speed reader is to be used, set the high speed reader switch to OFF and the low speed reader switch to START.
- 5. Set the starting address, 773000, into the SWITCH REGISTER.

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- 6. Press the LOAD ADDR switch.
- 7. Press the START switch. After a short pause the paper tape should read in.

2.3.2 Operating Procedure for PM-RL11B

The PM-RL1lB has a single operating procedure for both bulk storage and paper tape bootstrap as follows:

- 1. Set the HALT/ENABLE switch to HALT, then to ENABLE.
- 2. Load address 773000 into the CPU.
- Start the CPU at this address.
- 4. According to Table 2-2 type in the 2 letter device code of the device to be booted. NOTE: Prior to typing the 2 letter code, make sure the device to be booted is ready, or, if paper tape is used, make sure the absolute loader tape is installed in the reader. Correct absolute loader is loaded into the tape reader.

DEVICE DEC	PLESSEY	DEVICE CODE
TMll	PM-TS11	MT
TSlļ	N/A	DT
RF11	N/A	RF
RCll	B/A	RC
RK11	PM-DS11	RK
RP11	PM-DS11/80	RP
RX11	PM-XS11	RX
PC11	PM-PRll	PR†

†Tries high speed reader first. If none, low speed reader is selected.

Table 2-2: PM-RL11B Device Codes

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Section 3 **Programs**

3.1 PROGRAMS FOR THE PM-RL11

The PM-RL11 program for the bulk storage bootstrap loader and for the paper tape bootstrap can be found in Program A.

3.2 PROGRAMS FOR THE PM-RL11B

Program B contains the listing for the bulk storage and paper tape bootstrap program for the PM-RL11B.

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; PAPER TAPE BOOTSTRAP PROGRAM

```
;ADDRESS POINTER
       000001 R1 = %1
                                              :TEMPORARY STORAGE
       000002 R2 = %2
                                              ;TEMPORARY STORAGE
       000003 R3 = %3
                                              :DEVICE POINTER
       000004 R4 = %4
                                              ;STACK POINTER
       000006 SP = \%6
                                              ;PROGRAM COUNTER
       000007 PC = 37
                                             ;HIGH SPEED READER ADDRESS
       177550 HSR = 177550
                                              ;LOW SPEED READER ADDRESS
       177560 LSR = 177560
       173000 . = 173000
                                              ;SET MEMORY CHECK LIMITS
                              #160000,R1
                     MOV
173000 012701 START:
       160000
                                              ;TRAP VECTOR IS LOCATION 4 & 6
                              #6,R2
                      MOV
173004 012702
       000006
                                              ;POINTER TO DEVICE ADDRESSES
                              #DEV+4, R3
                      MOV
173010 012703
       173100
                                              ;CLEAR TRAP STAATUS AT LOC 6
                      CLR
                              @R2
173014 005012
                                              ;SET TRAP ADDRESS AT LOC 4
                              PC, -(R2)
                      MOV
173016 010742
                                              ;SET UP STACK OUT OF THE WAY
                              PC,SP
                      MOVB
173020 110706
                                              ;GET DEVICE ADDRESS
                              -(R3),R4
173022 014304 DEV1:
                     MOV
                                              CHECK AVAILABILITY OF DEVICE
                              €R4
                      TST
173024 005714
                                             ;BR IF HSROUT OF TAPE (BIT 15)
                      BMI
                              DEV1
173026 100775
                                              ;RESET TRAP ADDRESS AT LOC 4
                              PC,@R2
#24,SP
                      MOV
173030 010712
                                              ;SPECIAL ADDRESS USED AS MASK
                      MOV
173032 012706
       000024
                                             ;MEM CHK: RDR STAT ADDR MOVED
                              R4, -(R1)
                      MOV
173036 010441
                                              ; SET R1=X7752, MASK IN SF =24
                              SP, R1
                      BIC
173040 040601
                                              ;STORE OWN ADDRESS IN POINTER
                              R1, @R1
173042 010111
                      MOV
                                              GET BYTE POINTER
                              @R1, R2
173044 011102 LOOP:
                      MOV
                                              ;ENABLE READER
                      INC
                              @R4
173046 005214
                                              ;TEST DONE BIT (7)
                              €R4
                      TSTB
173050 105714
                                              ; WAIT UNTIL READY
                              . -2
                      BPI
173052 100376
                                              THEN PICK IT UP AND STORE IT
                              2(R4), @R2
                      MOVE
173054 116412
       000002
                                              ; BUMP POINTER
                              €R1
                      INC
173060 005211
                                              ;STORED JUMP OFFSET?
                              R2, #375
                      CMPB
173062 120227
       000375
                                              ;NOT YET
                              LOOP
                      BNE
173066 001366
                                              ;YES, ALL DONE
                              (R2)+
                      INCE
173070 105222
                                              ;GO EXECUTE AS BRANCH
                              -(R2)
173072 000142
                      JMF'
              ;DEVICE ADDRESSES FOLLOW - DO NOT CHANGE THE ORDER
                                              ;LOW SPEED READER
                      LSR
173074 177560 DEV:
                                              ;HIGH SPEED READER
                      HSR
173076 177550
       000001
                      . END
                                PROGRAM A
```

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.MAIN. MACRO V06-04A 05-FEB-86 00:00 PAGE 1

; BULK STORAGE BOOTSTRAP LOADER PROGRAM

;REGISTER ASSIGNMENTS 000000 R0=%0 000001 R1=%1

173100 . = 173100

173100	013701	MOV	@#177570,R1	;READ SWITCH REGISTER FOR
173106	177570 000005 BEGIN: 010100 012710	RESET MOV MOV	R1,R0 #-256.,@R0	;FORCE CLEAR IF RETRY ; DEVICE WORD COUNT ADDR ;SET TO READ 256 WORDS
173114	177400 020027 177344	CMF	RO+#177344	;IS IT DECTAPE?
	001007 012740 004002	ENE MOV	START #4002, -(R0)	;NO, GO TO START ;YES, MOVE TAPE TO FRONT
	005710	TST BB/	@RO	;WAIT FOR ERROR
173132	100376 005740	BPL TST	2 -(RO)	; IS IT_ENDZONE?
	100363 022020	BPL CMP	BEGIN (RO)+,(RO)+	;NO, TRY AGAIN ;ADJUST POINTER
173140	012740 START: 000005	MOV	#5, -(RO)	;START ACTUAL READ
	105710		@RO	;WAIT FOR DONE
	100376 005710	BPL TST	2 @RO	;ERROR?
	100754			; IF SO, TRY AGAIN
	105010		@RO	FOR DECTAPE, STOP MOTION
	000137 000000		@#O	;GO TO ROUTINE LOADED
	000001	. END		

PROGRAM A

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SIZE CODE IDENT NO.

MA 700596

SCALE

REV

A

SHEET 3-3

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*****	DA-	% 0
000000	RO=	
000001	R1=	%1
000002	R2=	%2
000003	R3=	%3
000004	R4=	7.4
000005	R5=	75
000006	R6=	7.6
000007	R7=	77
177560	TKS=	177560
177562	TKB=	177562
-		
177564	TPS=	177564
177566	TPB=	177566
172524	BC =	172524
177550	HSR =	177550
	LSR =	177560
177560	LOR -	1//500

173000 .= 173000

PROGRAM B

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SIZE	CODE IDENT NO.	DWG NO.
Α	52648	MA 700596
SCALE	REV	SHEET 3-4

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173000 000005 START: 173002 005000 173004 005002 173006 005003 173010 005103 173012 012701 000122	RESET CLR CLR CLR COM MOV	R0 R2 R3 R3 #122,R1	;RESET ;CLEAR RO ;CLEAR R2 ;CLEAR R3 ;MAKE R3 = 1/S ;PUT 122 IN R1
173016 060701 173020 105737 1\$: 177564	ADD TSTB	R7,R1 @#TPS	FORM ADDRESS OF PROMPT PRINTER BSY?
173024 100375 173026 111137 177566		1\$ (R1),@#TPB	;YES, BRANCH BACK ;OUTPUT
173032 005201 173034 120311 173036 001370 173040 105737 2\$:	INC CMPB BNE TSTB	R3,(R1) 1\$	FINC R1 BY ONE FARE WE AT NULL YET? FNO, BRANCH BACK
177560 173044 100375 173046 113700	TSTB BPL MOVB	2\$;NO, BRANCH BACK ;YES, PUT CHAR IN RO
177562 173052 105737 3\$: 177564	TSTB	@#TPS	PRINTER BUSY?
173056 100375 173060 110037 177566	BPL MOVB	3 \$ RO, @ #TPB	;YES, BRANCH BACK ;NO, ECHO
173064 042700 177600	BIC	#177600, RO	;STRIP JUNK
173070 050002 173072 000302 173074 105702 173076 001760	BIS SWAB TSTB BEQ	RO, R2 R2 R2 2\$ R3	;PUT CHAR INTO R2 ;SWAP BYTES ;BOTH CHAR YET? ;NO, BRANCH BACK
173100 005303 4\$: 173102 001376 173104 062701 000001	DEC BNE ADD	R3 4\$ #1,R1	;WAIT A WHILE ;DONE YET? ;YES: MAKE R1 EVEN
173110 010103	MOV TST BEQ CMP BEQ ADD	R1,R3 (R1) START R2,(R1) 6\$ #6,R1	CK FOR LAST IN TABLE YES NOT IN ROM, BR BACK CHECK FOR MATCH MATCHED, CONTINUE ON NO MATCH, SET UP NEXT COMPARE
173126 000771 173130 005721 6\$: 173132 011104 173134 005721 173136 061103 173140 000113 173142 000000	BR TST MOV TST ADD JMP HALT	5\$ (R1)+ (R1),R4 (R1)+ (R1),R3 (R3)	;BRANCH BACK ;MOVE PNTR UP ONE ADDR ;MOVE CSR TO R4 ;MOVE PNTR UP ONE ADDR ;ADDR OFFSET TO R3 ;JUMP TO IT ;SOMETHING IS WRONG ;SHOULDN'T GET HERE EVER
		PROGRAM B	

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SIZE Д SCALE CODE IDENT NO. DWG NO.

52648

MA 700596

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SHEET 3-5

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173144 000000	TABLE:	. WORD	0	; NULL
173146 000015		. WORD	0 15	; CR
173150 000000		. WORD	15 0 0 12 0 0 177452	; NULL
173152 000000		. WORD	0	; NULL
173154 000012		. WORD	12	; LF
173156 000000		. WORD	0	; NULL
173160 000000		. WORD	0	; NULL.
173162 177452		. WORD	177452	; *
	TBL1:		/RC/	;RC
173165 103				
173166 177450 173170 000110 173172 122		. WORD	177450	FRC WCR
173170 000110		. WORD	MAIN-TBL1	;RC OFFSET
173172 122		. ASCII	/RF/	; RF
173173 106				
173174 177462		. WORD	177462	FRF WCR
173176 000110		. WORD	MAIN-TBL1	;RF OFFSET
173200 122		. ASCII	/RK/	; RK
173201 113			-	
173202 177406		. WORD	177406	;RK WCR
173204 000110		. WORD	MAIN-TBL1	;RK OFFSET
173206 122		. ASCII	/RP/	; RP
173207 120				
173210 176716		. WORD		;RP WCR
173212 000110		. WORD		;RP OFFSET
173214 104		. ASCII	/DT/	; DT
173215 124				
173216 177342		. WORD	177342	;DT CSR
173220 000062		. WORD		;DT OFFSET
173222 115		. ASCII	/MT/	; MT
173223 124				
173224 172522		. WORD	172522	;MT CSR
173226 000154		. WORD		;MT OFFSET
173230 122		.ASCII	/RX/	;RX
173231 130				
173232 177170		. WORD	177170	;RX CSR
173234 000314		. WORD	314	;RX OFFSET
173236 120		. ASCII	/PR/	;PR
173237 122				- · · · · ·
173240 000000		. WORD	0	
173242 000214		WORD	214	;PR OFFSET
173244 000000		. WORD	0	; END OF TABLE
		J 11-0-11-00	•	

PROGRAM B

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A
SHEET 3-6

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173324 020427							
004003 173254 005714 7\$: TST						; RESET	
173254 005714 7\$: TST	1/3250			MOV	#4003,(R4)	; REWIND	
173256 100376 173260 005744 1731 173260 005744 1751 -(R4)	17005			TOT	(B4)		
173260 005744 TST -(R4) ;POINT R4 TO ERR REG 173264 100402 BMI 8\$;YES BRANCH 173266 005724 TST (R4)+;NO, POINT R4 TO CSR 173270 000766 BR DT ;TRY AGAIN 173272 022424 8\$: CMP (R4)+,(R4)+ ;POINT R4 TO WCR 173273 012705 MAIN: MOV #5,R5 ;PUT READ CMD IN R5 000005 173300 000005 MAINA: RESET 173300 012714 MOV #177400,(R4) ;MOV WCR 173310 010514 MOV R5,(R4) ;SET UP R4 TO POINT TO WCR 173310 010514 MOV R5,(R4) ;START DEVICE 173314 100376 BPL 9\$;NO JUMP BACK 173320 05724 TST (R4) ;YES TEST FOR ERROR 173312 005714 TST (R4) ;YES TEST FOR ERROR 173314 100376 BPL MT1 ;NO, JUMP TO POM START 173322 005724 TST (R4)+ ;YES, POINT R4 BACK TO WCR 173320 010146 BEQ DT ;YES, BACK TO DT 173324 020427 CMP R4,#177342 ;IS THIS DEC TAPE? 173320 001746 BEQ DT ;YES, BACK TO DT 172522 173330 001360 BNE MAINA ;NO, BACK TO MAINA 173340 000005 MT: RESET 173340 000005 MT: RESET 173340 001360 BNE MAINA ;NO, BACK TO MAINA 173352 105714 10\$: TSTB (R4) 173352 105714 10\$: TSTB (R4) 173354 005714 TST (R4) 173360 001360 BNE MAINA ;NO, BACK TO MAINA 173360 001360 BNE MAINA ;NO, BACK TO MAINA 173360 001360 BNE MAINA ;NO, BRANCH BACK 173360 001360 BNE MAINA ;NO, BRANCH BACK 173360 001360 BNE MAINA ;NO, BRANCH BACK 173360 005714 TST (R4) ;SPACE FORWARD 173360 005714 TST (R4) ;NO, BRANCH BACK 173360 005714 TST (R4) ;PUT ALL 1'S IN BYTE COL 173360 005714 TST (R4) ;PUT ALL 1'S IN BYTE COL 173360 005714 TST (R4) ;PUT ALL 1'S IN BYTE COL 173360 005714 TST (R4) ;PUT READ CMD IN R5 173364 012705 MOV #60003, R5 ;PUT READ CMD IN R5 173370 000743 BR MAINA ;JMP TO MAINA 173370 000743 BR MAINA ;JMP TO MAINA 173370 000137 MT1: JMP O 173376 000000 HALT 173360 002000 HALT 173370 000000			/ # ;				
173262 005714 TST (R4) ; VES BRANCH 173264 100402 BMI 8\$; VES BRANCH 173270 000766 BR DT ; TRY AGAIN 173270 0027624 8\$: CMP (R4)+, (R4)+ ; POINT R4 TO CSR 173270 002005 173270 000005 MAIN: MOV #5, R5 ; PUT READ CMD IN R5 000005 173300 000005 MAINA: RESET 173300 010714 MOV #177400, (R4) ; SET UP R4 TO POINT TO CR 173300 005744 TST -(R4) ; SET UP R4 TO POINT TO CR 173310 010514 MOV R5, (R4) ; START DEVICE 173312 105714 9\$: TSTB (R4) ; SEST FOR DRNE 173314 100376 BPL 9\$; NO JUMP BACK 173316 005714 TST (R4) ; VES TEST FOR ERROR 173320 005724 TST (R4)+ ; VES TEST FOR ERROR 173320 005724 TST (R4)+ ; VES, POINT R4 BACK TO W 173320 005724 TST (R4)+ ; VES, POINT R4 BACK TO W 173320 005724 TST (R4)+ ; VES, POINT R4 BACK TO W 173320 005724 TST (R4)+ ; VES, POINT R4 BACK TO W 173320 005724 TST (R4)+ ; VES, POINT R4 BACK TO W 173320 005724 TST (R4)+ ; VES, POINT R4 BACK TO W 173320 005724 TST (R4)+ ; VES, POINT R4 BACK TO W 173320 005724 TST (R4)+ ; VES, POINT R4 BACK TO W 173321 105714 MOV #60011, (R4) ; SPACE FORWARD 173322 005724 TST (R4)+ ; VES, POINT R4 BACK TO W 173332 005734 TST COM BC ; PUT ALL I'S IN BYTE COL 173334 001360 BNE MAINA ; SPACE FORWARD 173342 005137 COM BC ; PUT ALL I'S IN BYTE COL 173354 100376 BPL 10\$; NO, BRANCH BACK 173356 005714 TST (R4)+ ; SPACE FORWARD 173356 012714 MOV #60011, (R4) ; SPACE FORWARD 173356 005714 TST (R4)+ ; MOV BERROR BRANCH BACK 173364 012705 MOV #60003, R5 ; PUT READ CMD IN R5 173370 000743 BR MAINA ; JMP TO MAINA 173370 000743 BR MAINA ; JMP TO MAINA 173370 000137 MT1: JMP O ; GO TO PGM START							
173264 100402 BMI 8\$;YES BRANCH 173276 005724 TST (R4)+ ;NO, POINT R4 TO CSR 173277 000766 173272 022424 8\$: CMP (R4)+,(R4)+ ;POINT R4 TO WCR 173274 012705 MAIN: MOV #5,R5 ;PUT READ CMD IN R5 000005 173300 000005 MAINA: RESET 173300 005744 TST -(R4) ;SET UP R4 TO POINT TO WCR 173310 010514 MOV R5,(R4) ;START DEVICE 173312 105714 9\$: TSTB (R4) ;TEST FOR DONE 173314 100376 BPL 9\$;NO, JUMP BACK 173316 005714 TST (R4) ;VES TEST FOR ERROR 173316 005714 TST (R4) ;VES TEST FOR ERROR 173316 005714 TST (R4) ;VES TEST FOR ERROR 173317 00024 BPL MT1 ;NO, JUMP TO POM START 173320 005724 TST (R4) ;VES TEST FOR ERROR 173320 005746 BEQ DT ;YES, POINT R4 BACK TO WA 173320 001746 BEQ DT ;YES, BACK TO DT 173323 001746 BEQ DT ;YES, BACK TO DT 173320 000000 MT: RESET 173340 000000 MT: RESET 173340 000000 MT: RESET 173352 105714 10\$: TSTB (R4) ;IS THIS MAG TAPE? 173354 100376 BPL 10\$;NO, BACK TO MAINA 173340 000000 MT: RESET 173355 005714 TST (R4) ;SPACE FORWARD 060011 173356 005714 TST (R4) ;IS IT DONE? 173360 000767 BMI MT ;ERROR! BRANCH BACK 173360 000767 BMI MT ;ERROR BRANCH BACK 173360 000000 HALT 17360 000000 HALT							
173266 005724							
173270 000766 173272 022424 8\$: CMP (R4)+,(R4)+ ;POINT R4 TO WCR 173274 012705 MAIN: MOV #5,R5 ;PUT READ CMD IN R5 000005 173300 000005 MAINA: RESET 173302 012714 177000 173306 005744 TST -(R4) ;SET UP R4 TO POINT TO CR 173312 105714 9\$: TSTB (R4) ;TEST FOR DONE 173314 100376 BPL 9\$;NO JUMP BACK 173320 005724 TST (R4) ;YES TEST FOR ERROR 173320 005724 TST (R4)+ ;YES, POINT R4 BACK 173320 005724 TST (R4)+ ;YES, POINT R4 BACK TO WCR 173320 005724 TST (R4)+ ;YES, POINT R4 BACK TO WCR 173320 005724 TST (R4)+ ;YES, POINT R4 BACK TO WCR 173320 005724 TST (R4)+ ;YES, BACK TO DT 173322 005724 TST (R4)+ ;YES, BACK TO DT 173323 001746 BEQ DT ;YES, BACK TO DT 173324 000005 MT: RESET 173340 000005 MT: RESET 173342 005137 COM BC ;PUT ALL 1'S IN BYTE COL 173354 001360 BNE MAINA ;NO, BACK TO MAINA 173340 000005 MT: RESET 173354 100376 BPL 10\$;NO, BRANCH BACK 173354 100376 BPL 10\$;NO, BRANCH BACK 173355 105714 10\$: TSTB (R4) ;IS IT DONE? 173356 005714 TST (R4) ;PUT ALL 1'S IN BYTE COL 173356 005714 TST (R4) ;PUT ALL 1'S IN BYTE COL 173356 005714 TST (R4) ;PUT READ CMD IN R5 173360 005724 TST (R4) ;PUT READ CMD IN R5 173364 012705 MOV #60003, R5 ;PUT READ CMD IN R5 173364 012705 MOV #60003, R5 ;PUT READ CMD IN R5 173370 000743 BR MAINA ;JMP TO MAINA 173372 000137 MT1: JMP O ;GO TO PGM START							
173272 022424 8\$: CMP (R4)+,(R4)+ ;POINT R4 TO WCR 173274 012705 MAIN: MOV #5,R5 ;PUT READ CMD IN R5 000005 173300 000005 MAINA: RESET 173302 012714 MOV #177400,(R4) ;RESET 177302 012714 MOV #177400,(R4) ;RESET 177300 010514 MOV R5,(R4) ;SET UP R4 TO POINT TO COMB 173310 010514 MOV R5,(R4) ;SET UP R4 TO POINT TO COMB 173312 105714 9\$: TSTB (R4) ;TEST FOR DONE 173314 100376 BPL 9\$;NO JUMP BACK 173314 100376 BPL MT1 ;NO, JUMP TO PGM START 173320 100024 BPL MT1 ;NO, JUMP TO PGM START 173320 100024 BPL MT1 ;NO, JUMP TO PGM START 173320 005724 TST (R4)+ ;YES, POINT R4 BACK TO MAINA 173320 0001746 BEQ DT ;YES, BACK TO DT 172522 TATS 2005727 CMP R4,#177342 ;IS THIS DEC TAPE? 172522 TATS 2005137 CMP R4,#172522 ;IS THIS MAG TAPE? 172522 TATS 2005137 COM BC ;PUT ALL 1'S IN BYTE COL 173340 000005 MT: RESET 173342 005137 COM BC ;PUT ALL 1'S IN BYTE COL 173354 100376 BPL 10\$;NO, BRANCH BACK 173364 012714 MOV #60011,(R4) ;PUT ALL 1'S IN BYTE COL 173364 012705 MOV #60003, R5 ;PUT READ CMD IN R5 060003 173370 000743 BR MAINA ;JMP TO MAINA 173370 000137 MT1: JMP O ;GO TO PGM START 173360 002703 0001000 HALT 17300 062703 0001000							
173274 012705 MAIN: MOV #5,R5 ;PUT READ CMD IN R5 173300 000005 MAINA: RESET 173302 012714 MOV #177400,(R4) ;MOVE WORD CNT TO WCR 177000 173306 005744 TST -(R4) ;SET UP R4 TO POINT TO COMBINATION CO			84:				
173300 000005 MAINA: RESET							
173300 000005 MAINA: RESET 173302 012714 MOV #177400,(R4) ;MOVE WORD CNT TO WCR 177000 173306 005744 TST -(R4) ;SET UP R4 TO POINT TO CR 173310 010514 MOV R5,(R4) ;START DEVICE 173312 105714 9\$: TSTB (R4) ;TEST FOR DONE 173314 100376 BPL 9\$;NO JUMP BACK 173316 005714 TST (R4) ;YES TEST FOR ERROR 173320 100024 BPL MT1 ;NO, JUMP TO PGM START 173322 005724 TST (R4)+ ;YES, POINT R4 BACK TO W 173324 020427 CMP R4,#177342 ;IS THIS DEC TAPE? 173320 001746 BEQ DT ;YES, BACK TO DT 173322 020427 CMP R4,#172522 ;IS THIS MAG TAPE? 173330 001746 BEQ DT ;YES, BACK TO DT 172522 173336 001360 BNE MAINA ;NO, BACK TO MAINA 173340 000005 MT: RESET 173342 005137 COM BC ;PUT ALL 1'S IN BYTE COL 173354 012714 MOV #60011,(R4) ;SPACE FORWARD 060011 173354 100376 BPL 10\$;NO, BRANCH BACK 173355 005714 TST (R4) ;IS IT DONE? 173354 100376 BPL 10\$;NO, BRANCH BACK 173356 005714 TST (R4) ;CHECK FOR ERROR 173360 100767 BMI MT ;ERROR: BRANCH BACK 173364 012705 MOV #60003, R5 ;PUT READ CMD IN R5 060003 173370 000743 BR MAINA ;JMP TO MAINA 173372 000137 MT1: JMP O ;GO TO PGM START 000000 173376 000000 HALT 173376 000000 HALT 173376 000000 HALT 173370 000703 ADD #100, R3				1101	#3713	ALOL MEND CUD IN KO	
173302 012714 MOV #177400, (R4) ; MOVE WORD CNT TO WCR 17306 005744 TST — (R4) ; SET UP R4 TO POINT TO C 173310 010514 MOV R5, (R4) ; START DEVICE 173312 105714 9\$; TSTB (R4) ; TEST FOR DONE 173314 100376 BPL 9\$;NO JUMP BACK 173320 100024 BPL MT1 ;NO, JUMP BACK 173320 100024 BPL MT1 ;NO, JUMP TO PGM START 173322 005724 TST (R4)+ ;YES TEST FOR ERROR 173324 020427 CMP R4, #177342 ;IS THIS DEC TAPE? 177342 173330 001746 BEQ DT ;YES, BACK TO DT 173320 020427 CMP R4, #172522 ;IS THIS MAG TAPE? 173320 000005 MT: RESET ;REST ;REST ;REST 173342 005137 COM BC ;PUT ALL 1'S IN BYTE COL 173340 000005 MT: RESET ;REST ;PUT ALL 1'S IN BYTE COL 173346 012714 MOV #60011, (R4) ;SPACE FORWARD 60011 173352 105714 10\$: TSTB (R4) ;IS IT DONE? 173354 100376 BPL 10\$;NO, BRANCH BACK 173356 005714 TST (R4) ;CHECK FOR ERROR 173360 100767 BMI MT ;ERROR! BRANCH BACK 173360 100767 BMI MT ;ERROR! BRANCH BACK 173364 012705 MOV #60003, R5 ;PUT READ CMD IN R5 060003 173370 000743 BR MAINA ;JMP TO MAINA 173372 000137 MT1: 0000000 173376 000000 HALT 173360 0000000 HALT 173360 000000 HALT 173360	173300		MAINA:	RESET		:RESET	
177000 173306 005744					#177400.(R4)		
173310 010514 MOV R5,(R4) ;START DEVICE 173312 105714 9\$: TSTB (R4) ;TEST FOR DONE 173314 100376 BPL 9\$;NO JUMP BACK 173320 100024 BPL MT1 ;NO, JUMP TO PGM START 173320 005724 TST (R4)+ ;YES, POINT R4 BACK TO WA 173324 020427 CMP R4,#177342 ;IS THIS DEC TAPE? 173330 001746 BEQ DT ;YES, BACK TO DT 173322 020427 CMP R4,#172522 ;IS THIS MAG TAPE? 172522 173336 001360 BNE MAINA ;NO, BACK TO MAINA 173340 000005 MT: RESET 173340 000005 MT: RESET 173340 012714 MOV #60011,(R4) ;SPACE FORWARD 060011 173352 105714 10\$: TSTB (R4) ;IS IT DONE? 173354 100376 BPL 10\$;NO, BRANCH BACK 173360 100767 BMI MT ;ERROR; BRANCH BACK 173360 005724 TST (R4)+ ;MOVE PNTR TO NEXT ADDR 173370 000743 BR MAINA ;JMP TO MAINA 173370 000743 BR MAINA ;JMP TO MAINA 173370 000000 HALT 173370 000000 HALT 173360 062703 ADD #100,R3						THOSE WORLD CHI TO WELL	
173310 010514 MOV R5, (R4) ;START DEVICE 173312 105714 9\$: TSTB (R4) ;TEST FOR DONE 173314 100376 BPL 9\$;NO JUMP BACK 173316 005714 TST (R4) ;YES TEST FOR ERROR 173320 100024 BPL MT1 ;NO, JUMP TO PGM START 173322 005724 TST (R4)+ ;YES, POINT R4 BACK TO WATER 173324 020427 CMP R4, #177342 ;IS THIS DEC TAPE? 177342 173330 001746 BEQ DT ;YES, BACK TO DT 173332 020427 CMP R4, #172522 ;IS THIS MAG TAPE? 172522 173336 001360 BNE MAINA ;NO, BACK TO MAINA 173340 000005 MT: RESET ;RESET ;RESET ;RESET 173342 005137 COM BC ;PUT ALL 1'S IN BYTE COL 172524 173346 012714 MOV #60011, (R4) ;SPACE FORWARD 060011 173352 105714 10\$: TSTB (R4) ;IS IT DONE? 173354 100376 BPL 10\$;NO, BRANCH BACK 173356 005714 TST (R4) ;CHECK FOR ERROR 173360 100767 BMI MT ;ERROR: BRANCH BACK 173360 100767 BMI MT ;ERROR: BRANCH BACK 173360 100767 BMI MT ;ERROR: BRANCH BACK 173364 012705 MOV #60003, R5 ;PUT READ CMD IN R5 060003 173370 000743 BR MAINA ;JMP TO MAINA 173370 000743 BR MAINA ;JMP TO MAINA 173370 0000743 BR MAINA ;JMP TO MAINA 173370 0000743 BR MAINA ;GO TO PGM START 0000000 173376 000000 HALT 173400 062703 ADD #100, R3 000100	173306	005744		TST	-(R4)	SET UP R4 TO POINT TO CSR	
173312 105714 9\$: TSTB (R4) ;TEST FOR DONE 173314 100376 BPL 9\$;NO JUMP BACK 173320 100024 BPL MT1 ;NO, JUMP TO PGM START 173322 005724 TST (R4)+ ;YES TEST FOR BACK TO WATT 173324 020427 CMP R4,#177342 ;IS THIS DEC TAPE? 173330 001746 BEQ DT ;YES, BACK TO DT 173332 020427 CMP R4,#172522 ;IS THIS MAG TAPE? 172522 173336 001360 BNE MAINA ;NO, BACK TO MAINA 173340 000005 MT: RESET 173340 000005 MT: RESET 173340 00005 MT: RESET 173340 00005 MT: RESET 173340 00005 MT: RESET 173340 000005 MT: RESET 173340 000005 MT: RESET 173340 000005 MT: RESET 173340 000005 MT: RESET 173354 100376 BPL 10\$;SPACE FORWARD 060011 173354 100376 BPL 10\$;NO, BRANCH BACK 173356 005714 TST (R4) ;IS IT DONE? 173356 005714 TST (R4) ;CHECK FOR ERROR 173360 100767 BMI MT ;ERROR! BRANCH BACK 173360 100767 BMI MT ;ERROR! BRANCH BACK 173360 005724 TST (R4)+ ;MOVE PNTR TO NEXT ADDR 173360 000743 BR MAINA ;JMP TO MAINA 173372 000137 MTI: JMP 0 ;GO TO PGM START 0000000 173376 000000 HALT 173400 062703 ADD #100,R3				MOV	R5,(R4)	START DEVICE	
173314 100376 BPL 9\$;NO JUMP BACK 173316 005714 TST (R4) ;YES TEST FOR ERROR 173320 100024 BPL MT1 ;NO, JUMP TO PGM START 173322 005724 TST (R4)+ ;YES, POINT R4 BACK TO W 173324 020427 CMP R4,#177342 ;IS THIS DEC TAPE? 177342 173330 001746 BEQ DT ;YES, BACK TO DT 173332 020427 CMP R4,#172522 ;IS THIS MAG TAPE? 172522 173336 001360 BNE MAINA ;NO, BACK TO MAINA 173340 000005 MT: RESET 173342 005137 COM BC ;PUT ALL 1'S IN BYTE COL 173340 012714 MOV #60011,(R4) ;SPACE FORWARD 060011 173352 105714 10\$: TSTB (R4) ;IS IT DONE? 173354 100376 BPL 10\$;NO, BRANCH BACK 173356 005714 TST (R4) ;CHECK FOR ERROR 173360 100767 BMI MT ;ERROR: BRANCH BACK 173362 005724 TST (R4)+ ;MOVE PNTR TO NEXT ADDR 173364 012705 MOV #60003, R5 ;PUT READ CMD IN R5 060003 173370 000743 BR MAINA ;JMP O ;GO TO PGM START 000000 173376 000000 HALT 173370 000100 #100, R3			9\$:	TSTB			
173316 005714 TST (R4) ;YES TEST FOR ERROR 173320 100024 BPL MT1 ;NO, JUMP TO PGM START 173322 005724 TST (R4)+ ;YES, POINT R4 BACK TO W 173324 020427 CMP R4, #177342 ;IS THIS DEC TAPE? 177342 173330 001746 BEQ DT ;YES, BACK TO DT 173320 020427 CMP R4, #172522 ;IS THIS MAG TAPE? 172522 173336 001360 BNE MAINA ;NO, BACK TO MAINA 173340 000005 MT: RESET ;RESET 173342 005137 COM BC ;PUT ALL 1'S IN BYTE COL 173346 012714 MOV #60011,(R4) ;SPACE FORWARD 060011 173352 105714 10\$: TSTB (R4) ;IS IT DONE? 173354 100376 BPL 10\$;NO, BRANCH BACK 173356 005714 TST (R4) ;CHECK FOR ERROR 173360 100767 BMI MT ;ERROR: BRANCH BACK 173362 005724 TST (R4)+ ;MOVE PNTR TO NEXT ADDR 173370 000743 BR MAINA ;JMP TO MAINA 173370 000743 BR MAINA ;JMP TO MAINA 173370 000000 HALT 173376 002000 HALT 173376 002000 HALT 173376 002000 HALT 173376 002703 ADD #100,R3				BPL	9\$		
173322 005724 TST (R4)+ ;YES, POINT R4 BACK TO WAINA 173324 020427 CMP R4,#177342 ;IS THIS DEC TAPE? 177342 173330 001746 BEQ DT ;YES, BACK TO DT 17332 020427 CMP R4,#172522 ;IS THIS MAG TAPE? 172522 173336 001360 BNE MAINA ;NO, BACK TO MAINA 173340 000005 MT: RESET COM BC ;PUT ALL 1'S IN BYTE COL 172524 173346 012714 MOV #60011,(R4) ;SPACE FORWARD 060011 173354 100376 BPL 10\$;NO, BRANCH BACK 173356 005714 TST (R4) ;CHECK FOR ERROR 173360 100767 BMI MT ;ERROR: BRANCH BACK 173360 100767 BMI MT ;ERROR: BRANCH BACK 173360 100767 BMI MT ;ERROR: BRANCH BACK 173364 012705 MOV #60003,R5 ;PUT READ CMD IN R5 060003 173370 000743 BR MAINA ;JMP TO MAINA 173372 000137 MT1: JMP O ;GO TO PGM START 173376 000000 HALT 173400 062703 000100 #100,R3				TST	(R4)		
173322 005724 TST (R4)+ ;YES, POINT R4 BACK TO W 173324 020427 CMP R4,#177342 ;IS THIS DEC TAPE? 177342 173330 001746 BEQ DT ;YES, BACK TO DT 173332 020427 CMP R4,#172522 ;IS THIS MAG TAPE? 172522 173336 001360 BNE MAINA ;NO, BACK TO MAINA 173340 000005 MT: RESET COM BC ;PUT ALL 1'S IN BYTE COL 172524 173346 012714 MOV #60011,(R4) ;SPACE FORWARD 060011 173352 105714 10\$: TSTB (R4) ;IS IT DONE? 173354 100376 BPL 10\$;NO, BRANCH BACK 173360 100767 BMI MT ;ERROR: BRANCH BACK 173360 100767 BMI MT ;ERROR: BRANCH BACK 173360 100767 BMI MT ;ERROR: BRANCH BACK 173364 012705 MOV #60003, R5 ;PUT READ CMD IN R5 060003 173370 000743 BR MAINA ;JMP TO MAINA 173372 000137 MT1: JMP O ;GO TO PGM START 000000 173376 000000 HALT 173400 062703 ADD #100, R3 000100					MII	;NO, JUMP TO PGM START	
173324 020427						;YES, POINT R4 BACK TO WOR	
173330 001746 BEQ DT ;YES, BACK TO DT 173332 020427 CMP R4,#172522 ;IS THIS MAG TAPE? 172522 173336 001360 BNE MAINA ;NO, BACK TO MAINA 173340 000005 MT: RESET COM BC ;PUT ALL 1'S IN BYTE COL 172524 173346 012714 MOV #60011,(R4) ;SPACE FORWARD 060011 173352 105714 10\$: TSTB (R4) ;IS IT DONE? 173354 100376 BPL 10\$;NO, BRANCH BACK 173356 005714 TST (R4) ;CHECK FOR ERROR 173360 100767 BMI MT ;ERROR: BRANCH BACK 173362 005724 TST (R4)+ ;MOVE PNTR TO NEXT ADDR 173364 012705 MOV #60003,R5 ;PUT READ CMD IN R5 060003 173370 000743 BR MAINA ;JMP TO MAINA 173372 000137 MT1: JMP O ;GO TO PGM START 000000 173376 000000 HALT 173400 062703 ADD #100,R3 000100	173324			CMP	R4,#177342	; IS THIS DEC TAPE?	
173332 020427							
172522 173336 001360 BNE MAINA ;NO, BACK TO MAINA ;RESET ;RESET ;RESET ;PUT ALL 1'S IN BYTE COL 172524 173342 005137 COM BC ;PUT ALL 1'S IN BYTE COL 172524 173346 012714 MOV #60011,(R4) ;SPACE FORWARD 060011 173352 105714 10\$: TSTB (R4) ;IS IT DONE? 173354 100376 BPL 10\$;NO, BRANCH BACK 173356 005714 TST (R4) ;CHECK FOR ERROR 173360 100767 BMI MT ;ERROR: BRANCH BACK 173362 005724 TST (R4)+ ;MOVE PNTR TO NEXT ADDR 173364 012705 MOV #60003,R5 ;PUT READ CMD IN R5 060003 173370 000743 BR MAINA ;JMP TO MAINA 173372 000137 MT1: JMP O ;GO TO PGM START 000000 173376 000000 HALT 173400 062703 ADD #100,R3 000100							
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173340 000005 MT: RESET ;RESET ;RESET 173342 005137 COM BC ;PUT ALL 1'S IN BYTE COL 172524 173346 012714 MOV #60011,(R4) ;SPACE FORWARD 060011 173352 105714 10\$: TSTB (R4) ;IS IT DONE? 173354 100376 BPL 10\$;NO, BRANCH BACK 173356 005714 TST (R4) ;CHECK FOR ERROR 173360 100767 BMI MT ;ERROR! BRANCH BACK 173362 005724 TST (R4)+ ;MOVE PNTR TO NEXT ADDR 173364 012705 MOV #60003,R5 ;PUT READ CMD IN R5 060003 173370 000743 BR MAINA ;JMP TO MAINA 173372 000137 MT1: JMP O ;GO TO PGM START 000000 173376 000000 HALT 173400 062703 ADD #100,R3 000100	17000/			B. 100			
173342 005137			MT.		MAINA		
172524 173346 012714			MI:		20		
173346 012714	1/3342			COM	BC	PUT ALL 1'S IN BYTE COUNT	
060011 173352 105714 10\$: TSTB (R4) ;IS IT DONE? 173354 100376 BPL 10\$;NO, BRANCH BACK 173356 005714 TST (R4) ;CHECK FOR ERROR 173360 100767 BMI MT ;ERROR! BRANCH BACK 173362 005724 TST (R4)+ ;MOVE PNTR TO NEXT ADDR 173364 012705 MOV #60003,R5 ;PUT READ CMD IN R5 060003 173370 000743 BR MAINA ;JMP TO MAINA 173372 000137 MT1: JMP O ;GO TO PGM START 000000 173376 000000 HALT 173400 062703 ADD #100,R3	172244			MOU	#/0011 / DA3	- 00405 5051455	
173352 105714 10\$: TSTB (R4) ;IS IT DONE? 173354 100376 BPL 10\$;NO, BRANCH BACK 173356 005714 TST (R4) ;CHECK FOR ERROR 173360 100767 BMI MT ;ERROR! BRANCH BACK 173362 005724 TST (R4)+ ;MOVE PNTR TO NEXT ADDR 173364 012705 MOV #60003,R5 ;PUT READ CMD IN R5 060003 173370 000743 BR MAINA ;JMP TO MAINA 173372 000137 MT1: JMP O ;GO TO PGM START 000000 173376 000000 HALT 173400 062703 ADD #100,R3	1/3340			MUV	#60011; (R4)	SPACE FURWARD	
173354 100376 BPL 10\$;NO, BRANCH BACK 173356 005714 TST (R4) ;CHECK FOR ERROR 173360 100767 BMI MT ;ERROR! BRANCH BACK 173362 005724 TST (R4)+ ;MOVE PNTR TO NEXT ADDR 173364 012705 MOV #60003,R5 ;PUT READ CMD IN R5 060003 173370 000743 BR MAINA ;JMP TO MAINA 173372 000137 MT1: JMP O ;GO TO PGM START 000000 173376 000000 HALT 173400 062703 ADD #100,R3	173352		104.	тетв	(DA)	.IC IT DONES	
173356 005714 TST (R4) ;CHECK FOR ERROR 173360 100767 BMI MT ;ERROR! BRANCH BACK 173362 005724 TST (R4)+ ;MOVE PNTR TO NEXT ADDR 173364 012705 MOV #60003,R5 ;PUT READ CMD IN R5 060003 173370 000743 BR MAINA ;JMP TO MAINA 173372 000137 MT1: JMP O ;GO TO PGM START 000000 173376 000000 HALT 173400 062703 ADD #100,R3			104.				
173360 100767 BMI MT ;ERROR! BRANCH BACK 173362 005724 TST (R4)+ ;MOVE PNTR TO NEXT ADDR 173364 012705 MOV #60003,R5 ;PUT READ CMD IN R5 060003 173370 000743 BR MAINA ;JMP TO MAINA 173372 000137 MT1: JMP O ;GO TO PGM START 000000 173376 000000 HALT 173400 062703 ADD #100,R3	173354	005714		TCT			
173362 005724 TST (R4)+ ;MOVE PNTR TO NEXT ADDR 173364 012705 MOV #60003,R5 ;PUT READ CMD IN R5 060003						*EDDAD! DOANCH DACK	
173364 012705 MOV #60003,R5 ;PUT READ CMD IN R5 060003 173370 000743 BR MAINA ;JMP TO MAINA 173372 000137 MT1: JMP O ;GO TO PGM START 000000 173376 000000 HALT 173400 062703 ADD #100,R3 000100							
060003 173370 000743 BR MAINA ;JMP TO MAINA 173372 000137 MT1: JMP 0 ;GO TO PGM START 000000 173376 000000 HALT 173400 062703 ADD #100,R3							
173370 000743 BR MAINA ;JMP TO MAINA 173372 000137 MT1: JMP O ;GO TO PGM START 000000 173376 000000 HALT 173400 062703 ADD #100,R3						NOT KEND CHD IN KO	
173372 000137 MT1: JMP 0 ;GO TO PGM START 000000 173376 000000 HALT 173400 062703 ADD #100,R3 000100	173370			BR	MATNA	:.IMP TO MAINA	
000000 173376 000000 HALT 173400 062703 ADD #100,R3			MT1:				
173376 000000 HALT 173400 062703 ADD #100,R3 000100				= 	-	THE THE POST OF THE	
173400 062703 ADD #100,R3 000100	173376			HALT			
000100		062703			#100,R3		
173404 012701 MOV #160000,R1 ;SET MEMORY CHECK LIMIT	173404			MOV	#160000, R1	SET MEMORY CHECK LIMIT	
160000							
173410 012702 MOV #6,R2 ;TRAP VECTOR 4 & 6	173410			MOV	#6,R2	FTRAP VECTOR 4 & 6	
000006							
					(R2)	CLR TRAP STATUS AT LOC 6	
173416 010742 MOV PC, -(R2) ; SET TRAP ADDR AT LOC 4						SET TRAP ADDR AT LOC 4	
- 1 /2a2/0 - 1 1 0 7 0 4 MOUTO - 50 05				MOVB	PC, SP	SET UP STACK OUT OF WAY	
			1\$:				
173422 014304 1\$: MOV -(R3), R4 ;GET DEVICE ADDR							
The state of the s							

PROGRAM B

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52648 SCALE MA 700596

SHEET 3-7

BOOTSTRAP-RL11 MACRO V06-04A 11-AUG-77 00:00 FAGE 5

	Men	50 (50)	;TAPE(ERR BIT 15) ;RESET TRAP ADDR AT LOC 4
173430 010712	MOV	PC,(R2)	;SPECIAL ADDR USED AS MASK
173432 012706	MOV	#24, R6	ASECTAL ADDITION OF HOUSE
000024 173 43 6 010441	MOV	R4, -(R1)	; MEM CHK: RDR STAT ADDR MOVED
173436 010441	BIC	SP, R1	; SET R1=X7752, MASK IN SP=24
173442 010111	MOV	R1,(R1)	STORE OWN ADDR IN POINTER
173444 011102 2\$:	MOV	(R1), R2	GET BYTE POINTER
173446 005214	INC	(R4)	;ENABLE READER
173450 105714	TSTB	(R4)	TESTN DONE BIT 7
173 45 2 100376	BPL	2	; WAIT UNTIL READY
173454 116412	MOVB	2(R4),(R2)	THEN PICK IT UP AND STORE IT
000002	TNO	/ D4 \	;BUMP POINTER
173460 005211	INC CMPB	(R1) R2,#375	STORED JUMP OFFSET?
173462 120227 000375	CMPB	K2, #3/3	ASTORED DONE OFFICE
173466 001366	BNE	2\$;NOT YET
173470 105222	INCB	(R2)+	YES, ALL DONE
173472 000142	JIMP	-(R2)	GO EXECUTE AS BRANCH
173474 177560 DEV:	LSR		;LOW SPEED RDR
173476 177550	HSR		;HIGH SPEED RDR
173500 000005 RX:	RESET		RESET BUS
173502 005000	CLR	R0	SET RO TO O
173504 105714 1\$:	TSTB	(Ř4)	; WAIT FOR TRANSFER REQ
173506 001776	BEQ	15	; NO, BRANCH BACK
173510 012714	MOV	#3,(R4)	;YES, EMPTY BUFF, GO
000003 1 73514 005714 2 \$:	TST	(R4)	; WAIT FOR SOMETHING
173514 003714 2#1	BEQ	2\$; NOTHING YET
173516 001776	BMI	RX	;ERR! START OVER
173520 100707	TSTB	(R4)	FINISHED TRANSFER?
173524 100004	BPL	3\$; YES, BRANCH
173526 116420	MOVB	2(R4), (R0)+	;NO, PUT DATA INTO MEM
000002			
173532 000770	BR	2\$	GET NEXT CHAR
173534 000000	HALT		EXTRA ROM LOCATION
173536 005000 3\$:	CLR	RO .	PUT O IN RO
173540 000110	JMP	(RO)	;START PGM @ O ;EXTRA ROM LOCATIONS
173542 000000 173544 000000	HALT .WORD	0	; " "
173546 000000	. WORD	Ŏ	, II
173550 000000	. WORD	ŏ	
173552 000000	. WORD	ŏ	, II
173554 000000	. WORD	Ŏ	;
173556 000000	. WORD	0	;
173560 000000	. WORD	0	;
173562 000000	. WORD	0	; ii
173564 000000	. WORD	o	9 11 9 11
173566 000000	. WORD	0	; "
173570 000000	. WORD	0	;
173572 000000	. WORD	0	7 9 U
173 574 000000 173 57 6 000000	. WORD . WORD	Ŏ	;EXTRA ROM LOCATIONS
1/33/6 000000	. WUND	V	Charlitti iswii mwwiii bwisw
000001	. END		
~~~~ <b>.</b>		PROGRAM	В

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BOOTSTRAP-RL11 MACRO V06-04A 11-AUG-77 00:00 PAGE 6 SYMBOL TABLE

BC = 172524DEV 173474 DT 173246 = 177550 LSR = 177560173274 **HSR** MAIN 173372 MAINA 173300 MT 173340 MT1 RX 173500 **R6** =%000006 R7 =%000007 START 173000 TABLE 173144 TBL1 173164 TKB = 177562**TPB** = 177566 TKS = 177560

PS = 177564000 ABS. 173600

000000 001

**ERRORS DETECTED:** FREE CORE: 12981. WORDS

, LP:/NL:SEQ<PERRY1

PROGRAM B

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# Appendix A Parts List

PL 700596-100 REV D PL 700596-201 REV A

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E	POARD ASSEMBL	<b>&gt;</b> ,		<del>"</del>		06 IDENT NO. 14	123450 B	SH <u>/</u> OF <u>6</u>
1	PM-RL/II			9	1082 3-26-76			
LTR	DESCRIPTION	DATE	APPROVED	LTR	DESCRIPTION		DATE	APPROVED
Ā	RELTOPRODPEREROSOO155 INCORP ED 1195	4-15-76 7-28-76	73 73	1				
В	INCORP E.O. 1484 18	9-14-77	Lit 38	1				
	INICORP E.O. 1534 AB	9-20-71	At 23 y					
	INCORP EO 2476	9-6-78	Maxim					
					PRODU	ICTION	RELE	ASE
STAT	us NEV LIN DDCDAI				<u> </u>		MBOLS USED AS FOL	
SHEE		8 9 10	)		1.	- FABRICATES ITCH	M TERED STEN     SELECTER STEN     CUSTOMER PARKISHED     STER	6 - BULK TIEN

PARTS Pless	sey l	Memories Incorporat Santa Ana, Cal		CODE IDENT NO. PARIS LIST NO. 52648 PLTC	05	96-100 SH 2 D
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REFERENCE DESIGNATION	I W M O.	REFERENCE DESIGNATION	I H	REFERENCE DESIGNATION	F 1 M M O.	REFERENCE DESIGNATION IN O
TB/	5		22		Ť	
	6		23			
	7	R1,15,14	24			
<i>U1</i>	8	R2,4	25			
02	9	R3,10,11,12,13,17	26			
U3,19,20,21,22	10	R5,16	27			4
U4,23,24,25,26	//	RG,7,8,9	28			
U5	12		29	•		
U6,14	/3	RM I	30			
U7	14		3/			
	15	C1,4,5,9,10,11,13				
	16	C14,15,16,17,18,19,20 C21,22,23,24,26,27	32			
	17	C28,29,30,31,33,34				
UII	18	C2,3	33			
012,13,17,18	19	C6	34			
U 15	20	C7,8,25,32	35			
016	21	CIR	36			

SIZE SCALE

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REV Α

1   1   1   1   1   1   1   1   1   1	F=									•			C/I US	AGE	
C. 2 EA TO 1339-00 HANDLE, CAED PULL  4 EA MEIGSS PRIET, TUBULARE, UNAL MEAD  4 EA MEIGSS PRIET, TUBULARE, UNAL MEAD  5 I EA 110-6-8 SOCKET, IG PIN DIP  5 CANBE 18617 S A  6 B  7 EA TO 20066-115 PLUG, ADDRESS STRAPPING  6 B  7 EA TO 20066-115 PLUG, ADDRESS STRAPPING  7 I EA SN. 74123 DUAL RETRIES MONO TEXAS DIESS B A  1 EA NO 2018-20 TRIES FIRM PRESET FILE ARE NOTED TO 2015  5 EA 136021380 QUAD 2-INPUT NOR RECEIVER  5 EA SN. 74438 QUAD 2-INPUT NOR RECEIVER  5 EA SN. 74438 QUAD 2-INPUT POS-NAMD TEXAS DIESS 1/A  1 EA SN. 74438 QUAD 2-INPUT POS-NAMD TEXAS DIESS 1/A  2 EA SN. 74440 DUAL J-K F/F/PRESET/ TEXAS DIESS 1/A  2 EA SN. 74440 DUAL A-INPUT POS-NAMD TEXAS DIESS 1/A  1 EA SN. 74442 A-LINE-TO-IOLINE DECODERS TEXAS DIESS 1/A  1 EA SN. 74442 A-LINE-TO-IOLINE DECODERS TEXAS DIESS 1/A  1 EA SN. 74455 A-LINE-TO-IOLINE DECODERS TEXAS DIESS 1/A  1 EA SN. 74455 A-CONTRACTOR TEXAS DIESS 1/A  1 EA SN. 74455 B-CONTRACTOR TEXAS DIESS 1/A  1 EA SN. 74455 B-CONTRACTOR TEXAS DIESS 1/A  1 EA SN. 74455 B-CONTRACTOR TEXAS DIESS 1/A  2 EA SN. 74455 B-CONTRACTOR TEXAS DIESS 1/A  2 EA SN. 74455 B-CONTRACTOR TEXAS DIESS 1/A  2 EA ROOSE PESISTOR, SGR 1576, 1/AW MIL-R-1/1 24A  2 EA ROOSE PESISTOR, SGR 1576, 1/AW MIL-R-1/1 25A  2 EA ROOTE PESISTOR, SGR 1576, 1/AW MIL-R-1/1 25A  2 EA ROOTE PESISTOR LOVE TEXAS LIAW MIL-R-1/1 25A	# # # # # # # # # # # # # # # # # # #	T	REQU			NOMENCLATURE OR DESCRIPTION	SPECIFICATION	IDENT	ZONE	I N N O. D	S Y H	C/I CODE	INV ON HAND		UNIT COST
### ##################################			/	EA	700594-001	P.W.B. ROM LOADER				/	В			Ц	
B   I EA US-2-16   SOCKET, IG PIN DIP   SCANBE 18617   5 A   B   I EA 700066-115 PLUG, ADDRESS STRAPPING   G B     EA SN74123   DUAL RETEIG MONO   TEXAS   01295   B A     I EA SN74123   DUAL D-TYPE POS EGG - TEXAS   01295   9 A     I EA SN74174   DUAL D-TYPE POS EGG - TEXAS   01295   9 A     S EA 136021380   QUAD 2-INPUT NOR   RECEIVER   NSTE   01295   11 A     S EA SN7438   BUFFERS W/OC   NSTE   01295   11 A     I EA SN74476   DUAL J-X F/F/F/PRESET/ TEXAS   01295   11 A     I EA SN7440   DUAL J-X F/F/F/PRESET/ TEXAS   01295   12 A     I EA SN7440   DUAL J-X F/F/F/PRESET/ TEXAS   01295   13 A     I EA SN7442   A-LINE-TO-IOLINE DECODERS   TEXAS   01295   13 A     I EA SN7442   A-LINE-TO-IOLINE DECODERS   TEXAS   01295   14 A     I EA SN7445   GUAD D-TYPE   TEXAS   01295   14 A     I EA SN74175   HEX / QUAD D-TYPE   TEXAS   01295   19 A     I EA SN74185   GOMPARATORS   TEXAS   01295   10 A     I EA SN74185   GOMPARATORS   TEXAS   01295   10 A     I EA SN74185   GESISTOR, 3300 ±5%, 1/4W   MIL-R-1/   24 A     L EA SN74185   DESISTOR, 5: GK ±5%, 1/4W   MIL-R-1/   24 A     L EN COTGE   DESISTOR, 5: GK ±5%, 1/4W   MIL-R-1/   25 A     L EN COTGE   DESISTOR, 5: GK ±5%, 1/4W   MIL-R-1/   25 A     L EN COTGE   DESISTOR, 5: GK ±5%, 1/4W   MIL-R-1/   25 A     L EN COTGE   DESISTOR, 5: GK ±5%, 1/4W   MIL-R-1/   25 A     L EN COTGE   DESISTOR, 5: GK ±5%, 1/4W   MIL-R-1/   25 A     L EN COTGE   DESISTOR, 5: GK ±5%, 1/4W   MIL-R-1/   25 A     L EN COTGE   DESISTOR, 5: GK ±5%, 1/4W   MIL-R-1/   25 A     L EN COTGE   DESISTOR   LON TEXT, 1/4W   MIL-R-1/   25 A     L EN COTGE   DESISTOR   LON TEXT, 1/4W   MIL-R-1/   25 A     L EN COTGE   DESISTOR   LON TEXT, 1/4W   MIL-R-1/   25 A     L EN COTGE   DESISTOR   LON TEXT, 1/4W   MIL-R-1/   25 A     L EN COTGE   DESISTOR	۲					. 1				2	4				
B			4	EΑ	MS16535 -154	RIVET, TUBULAR, OVAL HEAD .123 DIA. X . 188 LONG, AL ALY				3	4				
B						·				4					
	$\mathcal{B}$		1	EA	US-2-16 -110-G-B	SOCKET, IG PIN DIP	SCANBE	18677		5	4				
EA SN74123	В		/	EΔ	700066 <b>-115</b>	PLUG, ADDRESS STRAPPING				6	В				
EA SN74174   MULTI W  CLEAR   INSTR       EA SN74174   DUAL D-TYPE POS EDS - TEXAS   01895   9 A       SEA   136021380   QUAD 2-INPUT NOR   RECEIVER   10 C										7					
FA SN74174   TRIG F F W PRESET   GLEAR   NSTE			1	EA	SN74123			01295		8	A				
S			1	EA	SN74 H74	DUAL D-TYPE POS EDG- TRIG F/F W/PRESET/CLEAR		01295		9	4	_			
SEA SN74H76   DUAL J-K F/F/PRESET/ TEXAS   DI295   IZ A     LEA SN74H76   DUAL 4-INPUT POS- TEXAS   DI295   IZ A     LEA SN74H40   DUAL 4-INPUT POS- TEXAS   DI295   IZ A     LEA SN74H40   DUAL 4-INPUT POS- TEXAS   DI295   IZ A     LEA SN74H2   A-LINE-TO-IOLINE DECODERS   TEXAS   DI295   IZ A     LEA SN74H2   A-LINE-TO-IOLINE DECODERS   TEXAS   DI295   IZ A     LEA SN74H2   A-LINE-TO-IOLINE DECODERS   TEXAS   DI295   IZ A     LEA SN74H75   HEX   QUAD D-TYPE   TEXAS   DI295   IZ A     LEA SN74H75   HEX   QUAD D-TYPE   TEXAS   DI295   IZ A     LEA SN74H5   A-BIT MAGNATUDE   TEXAS   DI295   IZ A     LEA SN74H5   BCD-TO-DEC DECODERS/DEINERS   TEXAS   DI295   ZI A     LEA SN74H5   BCD-TO-DEC DECODERS/DEINERS   TEXAS   DI295   ZI A     LEA SN74H5   RESISTOR, 330s ±5%, I/AW   MIL-R-II   Z5 A     LEA RCOTGF   RESISTOR, 5.6K ±5%, I/AW   MIL-R-II   Z5 A     LEA RCOTGF   RESISTOR, 5.6K ±5%, I/AW   MIL-R-II   Z5 A     LEA RCOTGF   RESISTOR, 5.6K ±5%, I/AW   MIL-R-II   Z5 A     LEA RCOTGF   RESISTOR   LOY ±5%, I/AW   MIL-R-II   Z5 A     LEA RCOTGF   RESISTOR   LOY ±5%, I/AW   MIL-R-II   Z5 A     LEA RCOTGF   RESISTOR   LOY ±5%, I/AW   MIL-R-II   Z5 A     LEA RCOTGF   RESISTOR   LOY ±5%, I/AW   MIL-R-II   Z5 A     LEA RCOTGF   RESISTOR   LOY ±5%, I/AW   MIL-R-II   Z5 A     LEA RCOTGF   RESISTOR   LOY ±5%, I/AW   MIL-R-II   Z5 A     LEA RCOTGF   RESISTOR   LOY ±5%, I/AW   MIL-R-II   Z5 A     LEA RCOTGF   RESISTOR   LOY ±5%, I/AW   MIL-R-II   Z5 A     LEA RCOTGF   RESISTOR   LOY ±5%, I/AW   MIL-R-II   Z5 A     LEA RCOTGF   RESISTOR   LOY ±5%, I/AW   MIL-R-II   Z5 A     LEA RCOTGF   LOY ±5%, I/AW   LAW   MIL-R-II   Z5 A     LEA RCOTGF   LOY ±5%, I/AW   MIL-R-II   Z5 A     LEA RCOTGF   LOY ±5%, I/AW   MIL-R-II   Z5 A     LEA RCOTGF   LOY ±5%, I/AW   MIL-R-II   Z5 A     LEA RCOTGF   LOY ±			5	EA	136021-380	QUAD 2-INPUT NOR RECEIVER				10	C				
TEASN 74H76   CLEAR			5	EA	5N7438	QUAD 2-INPUT POS-NAND BUFFERS W/OC		01295	· ·	//	1				
EA SN74.42			1	EA	SN74H76	CLEAR	l .	01295	ļ	12	A				
D			2	EA	5N74H40			01295		/3	4				
D			1	EA	SN7442	4-LINE-TO-IOLINE DECODERS		01295		14	2/4				
D	D									15	- 6				
EA   100052-001   1024-BIT READ-ONLY   18C     4 EA SN74175   HEX   QUAD D-TYPE   TEXAS   1194     1 EA SN74175   HEX   QUAD D-TYPE   TEXAS   1185TR   1	D									14					
### A SN74175   HEX   QUAD D-TYPE   TEXAS   1995   19 A      FA SN7485   4-BIT MAGNATUDE   TEXAS   11295   20 A      FA SN7485   BCD-70-DEC DECODERS/DEIVERS   TEXAS   11295   21 A      FA SN74145   BCD-70-DEC DECODERS/DEIVERS   TEXAS   11295   21 A      SEA RCOTGF   RESISTOR, 330 \( \Omega \) ±5%,  /4W   MIL-R- /   24 A      2 FA RCOTGF   RESISTOR, 5.6K ±5%,  /4W   MIL-R- /   25 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF   RESISTOR   10K ±5%,  /4W   MIL-R- /   24 A      CEN RCOTGF	D									17	10				
FIF W   CLEAR   INSTR   INST			1	EA	100052-001	1024-BIT READ-ONLY MEMORIES				18	3 0				
EA SN74145 BCD-TO-DEC DECODERS/DEIVERS   TEXAS   1/85TR   01295   21 A   22   23   23   24   24   24   24   25   25   25   26   26   26   26   26			4	EA	SN74175			01295		19	4				
22 23 23 23 24 25 26 26 27 28 28 28 28 28 28 28 28 28 28 28 28 28			/	EA	SN7485	4-BIT MAGNATUDE COMPARATORS		01295		20	1				
3 EA RCOTGF RESISTOR, 330 \( \Omega \tau \) \( \Omega \tau \tau \) \( \Omega \tau \tau \) \( \Omega \tau \tau \tau \tau \tau \) \( \Omega \tau \tau \tau \tau \tau \tau \tau \ta			/	EΑ	SN74145	BCD-TO-DEC DECODERS/DEIVERS	TEXAS	01295		21	h				
3 EA RCOTGF RESISTOR, 330 \( \Delta \text{5%, 1/4W} \) MIL-R-1/ 24 A  2 EA RCOTGF RESISTOR, 5.6 K \$\text{5%, 1/4W} \) MIL-R-1/ 25 A  CEA RCOTGF RESISTOR 1 OK \$\text{5%, 1/4W} \) MIL-R-1/ 26 A										22	2				
2 FA RCOTGF RESISTOR, 5.6K ±5%, 1/4W MIL-R-1/  2 FA RCOTGF RESISTOR, 5.6K ±5%, 1/4W MIL-R-1/  25A  25A  25A										23					
2 th 5621 102515102,5.0K = 578,1/4W MII-P-11 264			3	EA		RESISTOR, 330 1. ±5%,1/4W	MIL-R-11			24	4				
			2	EA	RCOTGF 562J	RESISTOR, 5.6K ±5%, 1/4W	MIL-R-II			25	1				
			6	EA		RESISTOR, 1.0K±5%,1/4W	MIL-R-11			24	4				

SIZE	CODE IDENT NO.	DWG	NO.	•
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	O T E	QTY REQI		PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	SPECIFICATION	CODE IDENT NO.	ZONE	I N N O. D	¥	C/1 C00F	INV ON HAND	P A R	UNIT COST
		l	EΑ	1510	RESISTOR, 1501 ±5%, 1/4W	MIL-R-II			27	4				
		4	EA	RC07GF 681J	RESISTOR, 6801. ±5%,1/4W	MIL-R-II			28	A				
									29					
		/	ξA	100013-004	RESISTOR, MODULE 3301				30	В				
									31					
		26	EΑ	C069B160 E103 Z	CAPACITOR / .01 UF +80-20%, 16 V	SPRAGUE	05571		32	4				
		2	FΑ	CD15CD 100J03	CAPACITOR / .01 UF +80-20%, 16 V CAPACITOR / 10 PF ± 5%, 500 V	CORNELL DUBILIER	93790		33	A				
		/	EA	CD15FD 101J03		CORNELL DUBILIER	93790		34	4				
		4	EΑ	150D156X 0020B2	CAPACITOR 15 UF ±10%,20V	SPRAGUE	05571		35	A				
		/	EΑ	CD15FD 221J03	CAPACITOR 220 PF + 5%, 500V	CORNELL DUBILIER	93790		36	A				
									37					
									<i>3</i> 8					
П								,	39					
		3	IN	5951	WIRE / 30 AWG SOLID, KYNAR INSULATION, COLOR: OPTIONAL	ALPHA WIRE	23172		40	G				
		REF		SN63WRAP3		QQ-5-57/			41	G				
									42					
									43					
		REF		5D700596	SCHEMATIC DIAGRAM ROM LOADER PM-RL/II				44	c				
		REF		TS700596	TEST SPECIFICATION ROM LOADER PM-RL/II				45	c				
		i							46					
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CODE IDENT NO. DWG NO.

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	PARTS Plessey Microsystems								GORI	ON BAILEY	7-6-77	PL 70059	6-20							
BOARD ASSEMBLY, ROM LOADER, PM- RL/11-201						CODE IDENT NO. 15H 1 GF 6														
ν.	M- K	-/	-	- 20	וכ									~	7	Meas 9	7-12-m	-		
LTR	· · · · · · · · · · · · · · · · · · ·			ESCRIP	TION						DATE	Ι		APPROVED	LTR		DESCRIPTION		DATE	APPROVED
<b>&lt;</b>	REL TO	PRO	D P	ER	ER	) 5	013	60		7-6	-7	7	Ko	ex						
																I	PRO	DUCTION	l REL	EASE
RE	V REV	LTR	Α	Α	Α	A	Λ	A	Τ	T	T	Τ	T	<del></del>	L.				YMBOLS USED AS FO	
STAT O SHEE	FEUE	ΪT	1	2	3	4	5	6	7	8	9	10	1					A - PARCHESES TER S - FARRICATES STER S - SPECIFICATION ON SOURCE GRATING, ETON	e - Altines Fren e - Selectes Fren e - Selectes Frenishes fren	6 - SMAR EYEM

PARTS Plesse	femories Incorporate Santa Ana, Calif	code ident no. 52643		75	96-201	SH <u>2</u>	A			
CROSS INDEX OF REFERENCE DESIGNATIONS TO FIND NO.										
REFERENCE DESIGNATION	1 N N O. D	REFERENCE DESIGNATION	I N N O. D	REFERENCE C	DESIGNATION	1 M M O. D	· REFERENCE	DESIGNATION		F 1 W N O. D
TBI	5		22							
	6		23							
	7	R1,15,14	24							
UI	8	R2,4	25							
02	9	123,10,11,12,13,17	26				i 1			
U3,19,20,21,22	10	R5,16	27							
U4,23,24,25,26	//	RG,7,8,9	28					•		
U5	12		29							
06,14	13	RM I	30						•	
UT	14		3/							
	15									
<i>U9</i>	16	C14,15,16,17,18,19,20 C21,22,23,24,26,27	32						Ī	
010	17	C28,29,30,31,33,34								
UII	18	C2,3	<i>33</i>							
U12,13,17,18	19	C6	34							
U15	20	C7,8,25,32	35							
U16	21	CIR	36							

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Α	52648	3		MZ	A 7005	96	
SCALE		REV	A		SHEET	A-5	

	N O	QTY	PART OR			CODE	Γ	ŗ.	T _s		C/I US	AGE	
: 1	E	REQD	IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	SPECIFICATION	IDENT NO.	ZONE	N O	· M	C/1 C000	CM CM HAND	AR	COST
		/	70059-1-001	P.W.B. ROM LOADER				1	5				
		2	701339	HANDLE, CAED				2	1				
		4	MS16535 -154	RIVET, TUBULAR, OVAL HEAD JRB DIA. X. 188 LONG, AL ALY				3	A				
								4		П		П	
		1.	US-2-16 -110-G-13	SOCKET, IG PIN DIP	SCANBE	18677		5	4				
		/	700066-207	PLUG, ADDRESS STRAPPING				6	B				
								7					
		/	SN74123	DUAL RETRIG MONO	TEXAS INSTIE	01295		8	Λ				
		/	SN74-1174	DUAL D-TYPE POS EDG- TIETG FIF WIPRESET ICLEAR	TEXAS INSTR	01295		9	A				
		5	136021-330	QUAD 2-INPUT NOR RECEIVER				10	C				
	_	5	SN7433	QUAD 2-INPUT POS-NAND BUFFERS W/OC	TEXAS INSTR	01295		//	1				
	_	/	SN74H76	DUAL J-K F/F/PRESET/ CLEAR	TEXAS INSTR	01295		12	1				
		2	5N74H40	DUAL 4-INPUT POS- NAND BUFFERS	TEXAS INSTR	01295		13	A				
		/	SN7442	4-LINE-TO-IOLINE DECODERS	TEXAS INSTR	01295		14	4				
								15					
		/	100015-008	1024-EIT READ-ONLY				16	С				
				MENTONS/ES				17	С				
		1.	100015-005	1024-BIT READ-ONLY MEMORIES				18	c			1	
		4	SN74175	HEX /QUAD D-TYPE FIF W/CLEAR	TEXAS INSTR	01295		19	A				
		/	SN7485	4-EIT MAGNATUDE	TEXAS INSTR	01295	}	20	A				
		/	SN74145	BCD-TO-DEC DECODERS/DEIVERS	TEXAS INSTR	01295		21	4				
	_							ez					
							}	23					
		3	RCOTGF 33/J	RESISTOR, 3301 ±5%,1/4W	MIL-R-11			24	4				
		2	RC07GF 562J	RESISTOR, 5.6K ±5%, 1/4W	MIL-R-11			?5	1				
		6	RCOTGF 102J	RESISTOR, 1.0K±5%,1/4W	MIL-R-11		1	26	4			T	

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	N O T E	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	· SPECIFICATION	CODE IDENT NO.	ZONE	1 M N O. D	M A	C/1 C00€	THY ON HAND	PAR	UNIT COST
		2	RCOTGF 151U	RESISTOR, 1501 ±5%,1/4W	MIL-R-II			27	4				
		4	ECOTGE 681J	RESISTOR, 680 Q ±5%,1/4W	MIL-R-II			28	1				
							•	29		_			
		/	100013-004	RESISTOR, MODULE 3301				30	В	 			
								31	L				
		26	C0698160 E103 <del>Z</del>	CAFACITOR/+80-20%,16'V CAPACITOR/+00 PF + 5%,500V	SPRAGUE	05571		32	1				· 
		2	CD15CD 100J03	CAPACITOR = 5%, 500V	CORNELL	93790		33	1				
		/	CD15 FD 101 J 03	CAPACITOR 100 PF ±5%,500V	CORNELL DUBILIER	93790		34	1	_			
		4	150D156X 0020B2	CAPACITOR 15 UF #10%, 20V	SPRAGUE	05571		35	1				
		/	CD15FD 221J03	CAPACITOR   100 PF ± 5%, 500V CAPACITOR   15 UF ± 10%, 20V CAPACITOR   220 PF ± 5%, 500V	CORNELL DUBILIER	?3790		36				$\downarrow$	
								37	1			1	
								38	3		ļ	1	
								39	1		ļ	1	
		AR	5951	WIRE / 30 AWG SOLID, KY NAR	ALPHA WIRE	23172		40	20				
		AR	SN63WRAP3	SOLDER	QQ-5-57/			4,	1	9	<u> </u>	1	
								4,	2				
								4	3		ļ	_	
		REF	50700596	SCHEMATIC DIAGEAM ROM LOADER PM-RL/II				4.	4		ļ		
		REF	TS700596 -201	TEST SPECIFICATION ROM LOADER PM-RL/II				45	5		ļ	1	
								10	6				
								4.	7		<u> </u>	1	
								4	3				
								4	9				
								5	0				
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# Appendix B Assembly Drawing

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SIZE CODE IDENT NO. DWG NO.

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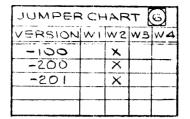
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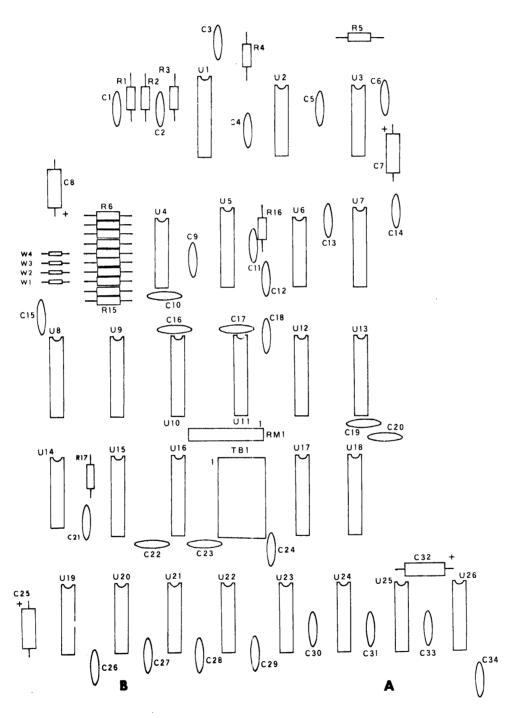
SCALE REV

Α

SHEET

R-1





SIZE CODE IDENT NO. DWG NO. 52648 7

Α

SCALE REV

SHEET B-2

700596

# Appendix C Schematic Diagrams

SD 700596 REV A

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SIZE | CODE IDENT NO. | DWG NO.

SCALE

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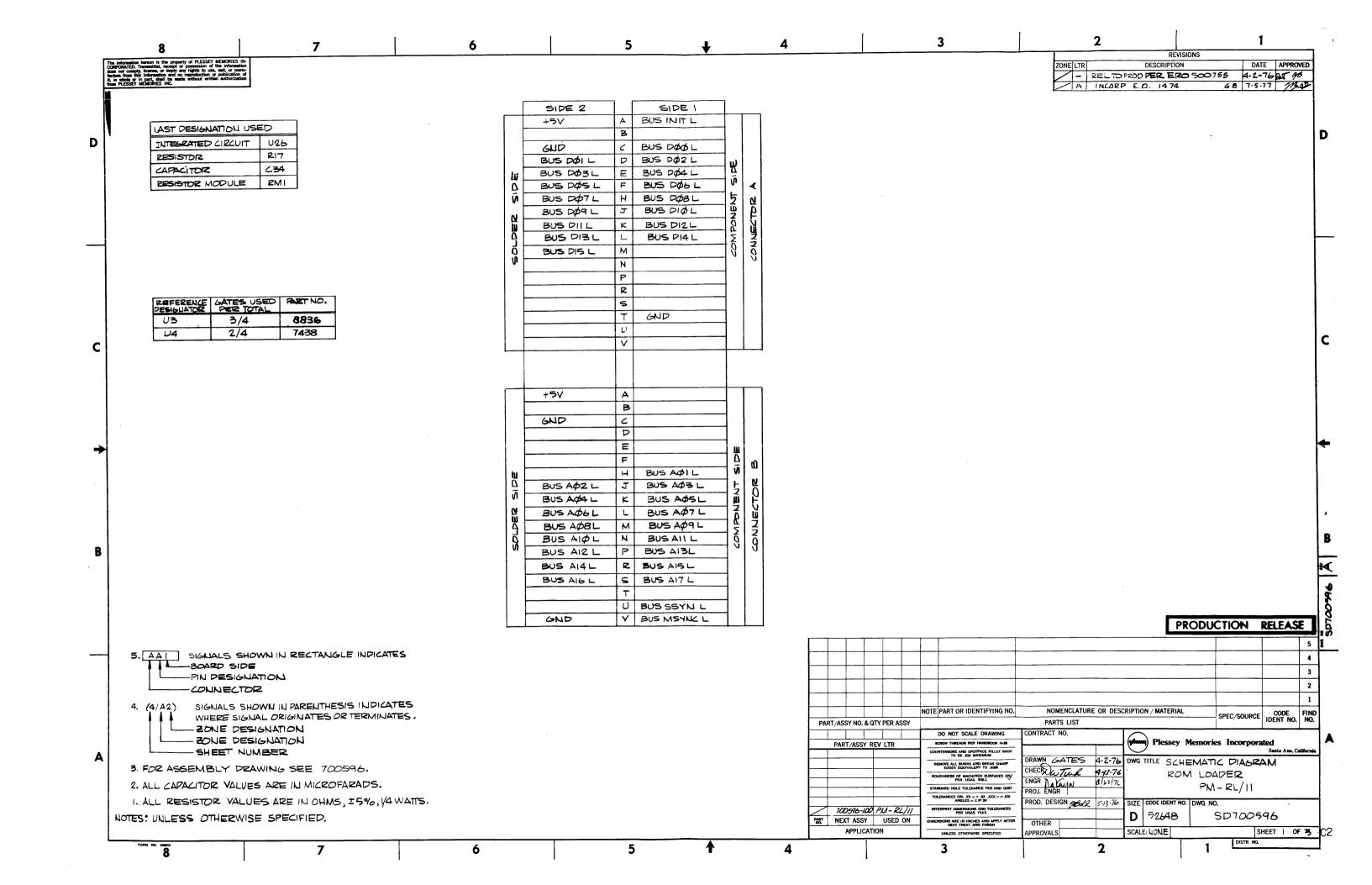
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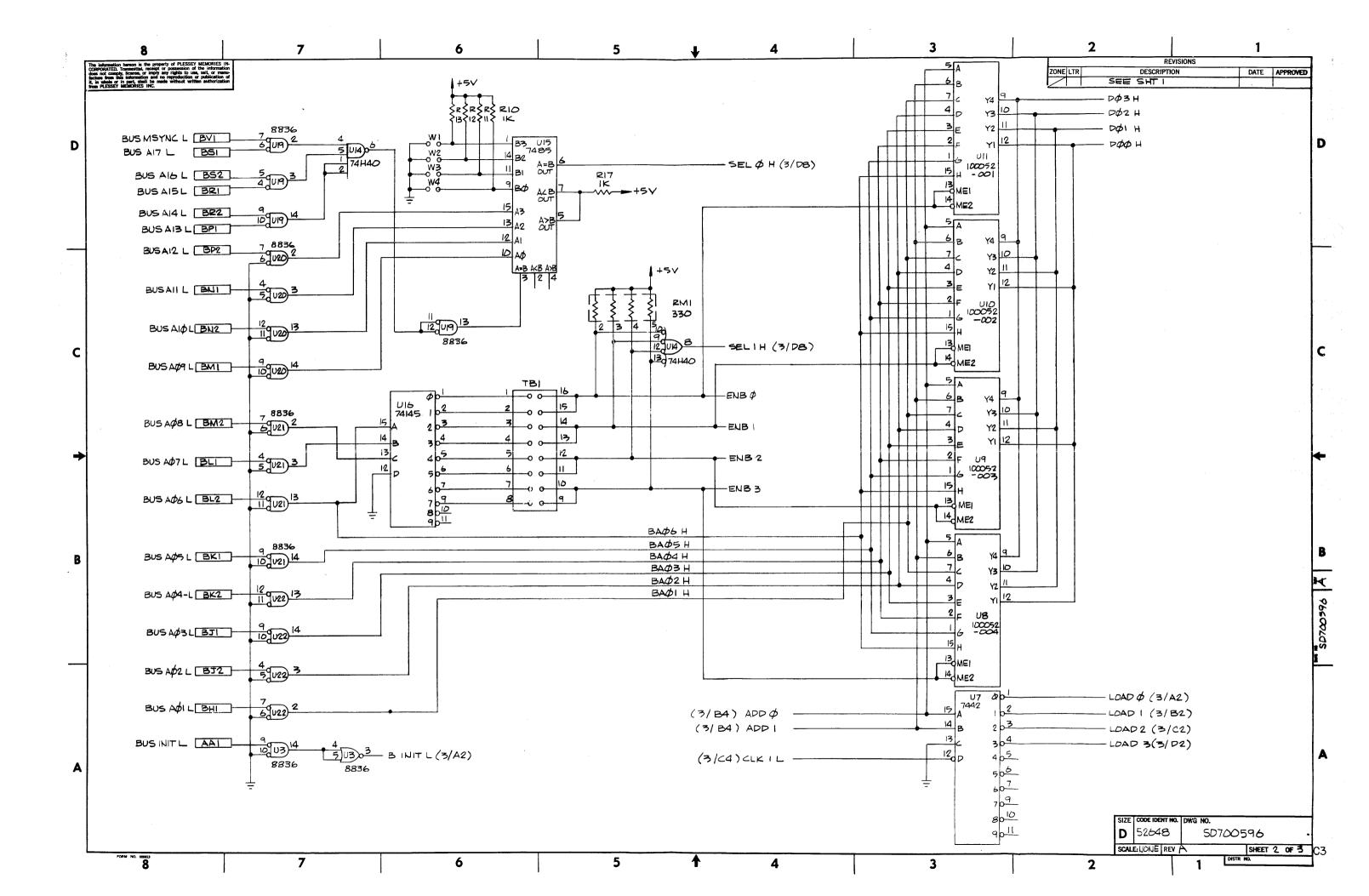
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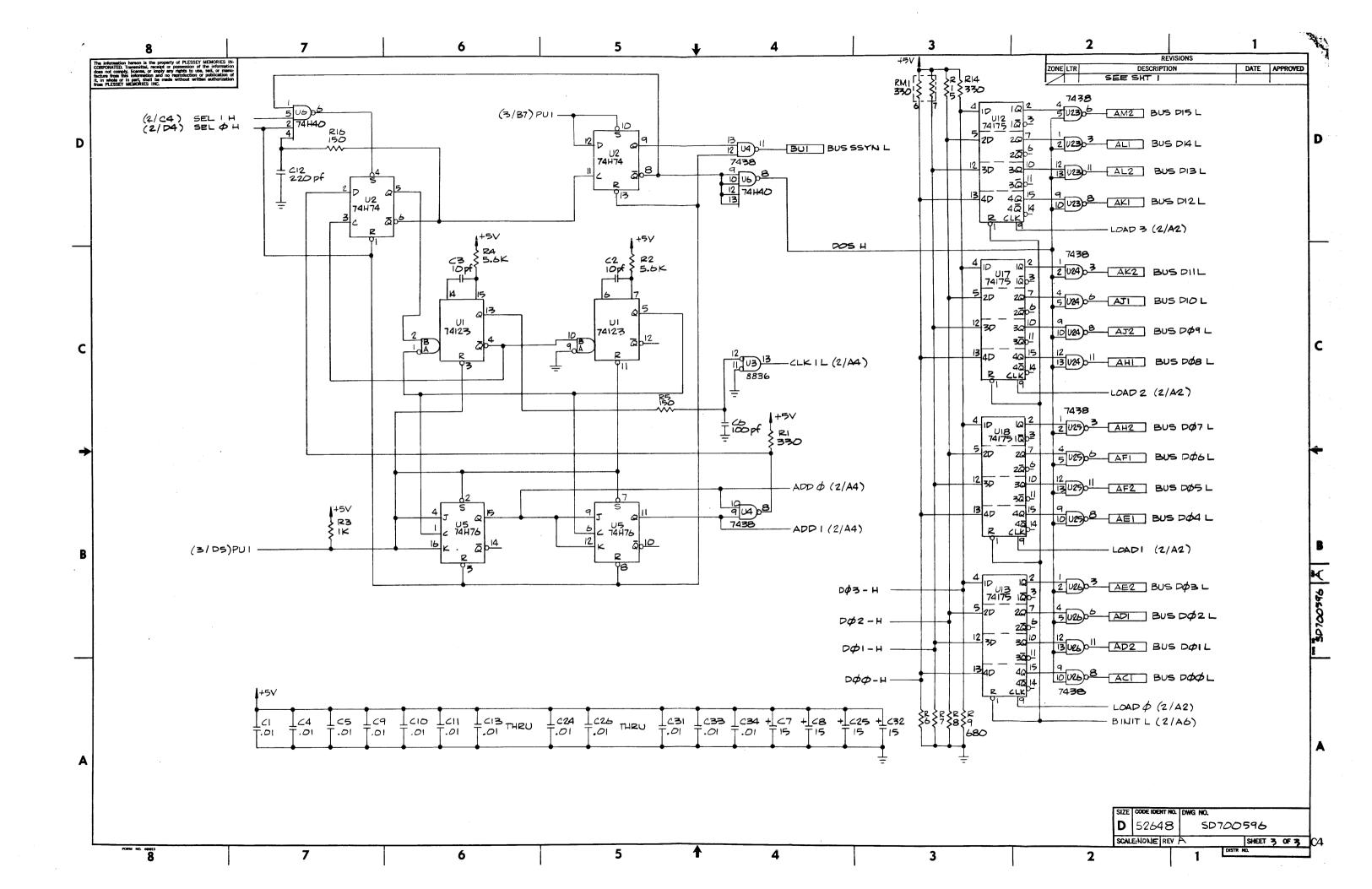
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